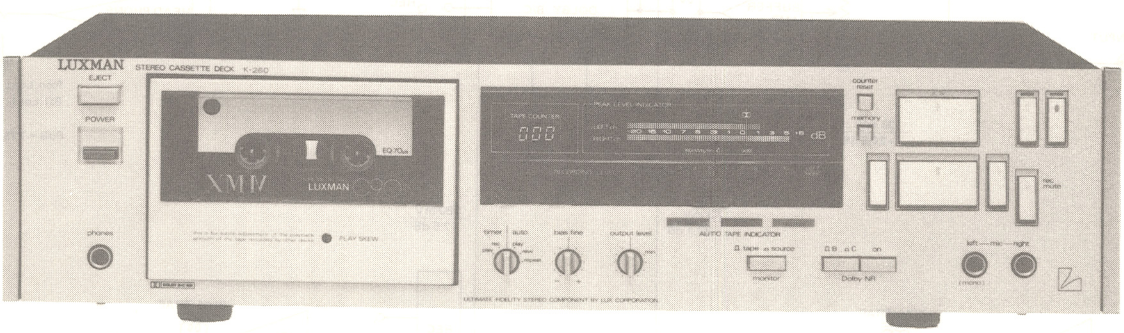
SERVICE MANUAL

LUXMAN STEREO CASSETTE DECK

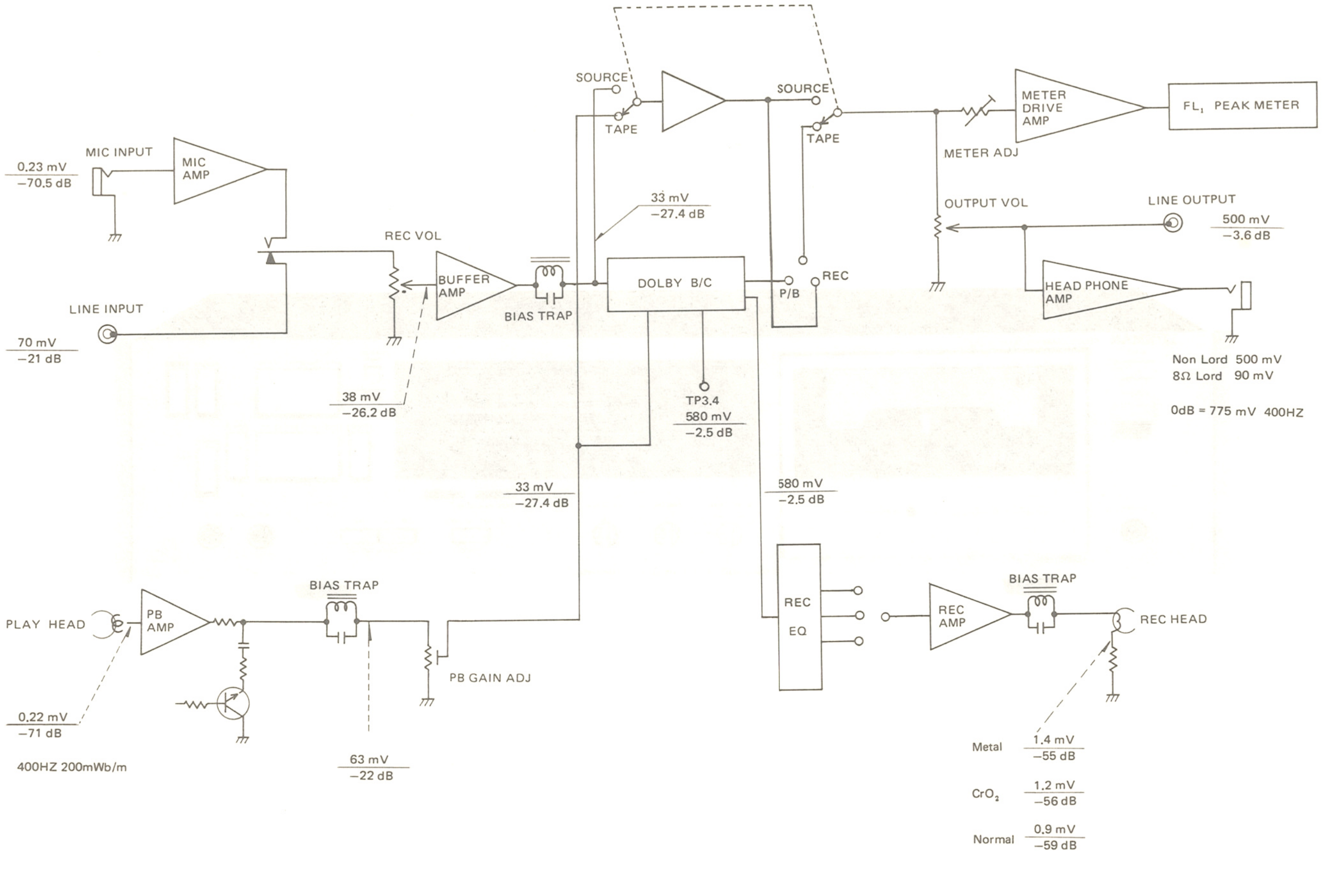
K-260


LUXMAN
STEREO CASSETTE DECK K-260
EJECT
POWER
phones
TAPE COUNTER
PEAK LEVEL INDICATOR
dB
counter reset
memory
rec mute
timer
auto
bias fine
output level
AUTO TAPE INDICATOR
tape
source
monitor
Dolby NR
left — mic — right
PLAY SKEW
ULTIMATE FIDELITY STEREO COMPONENT BY LUX CORPORATION

Contents

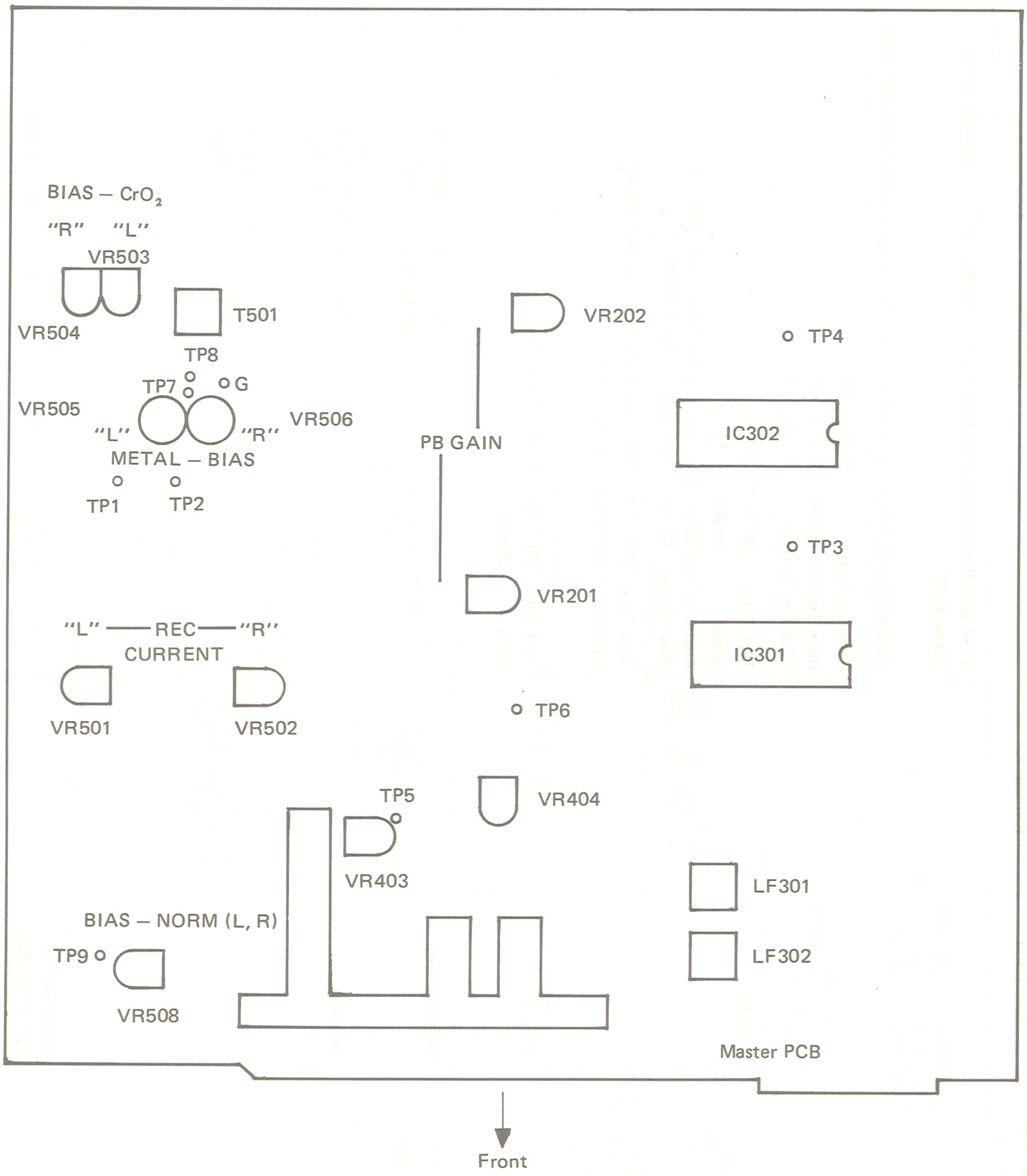
Level Diagram 1
Adjustment Location 2
Adjustment Procedures 3,4
Exploded View Parts List 6
Exploded View (Mecha) Parts List 8
Packing Material Parts List 9
Master PCB Parts List 11–15
Key Board Switch PCB Parts List 15
Memory and Reset PCB Parts List 16
Rotary Switch PCB Parts List 16
FL Meter PCB Parts List 17
Indicator PCB Parts List 17
Control PCB Parts List 18
Power Supply PCB Parts List 19
Head Phone PCB Parts List 19
Destionation's Parts List 19
Schematic Diagram(A) 20
Schematic Diagram(B) 21
IC Handling Guide 22
Specification 23

Level Diagram



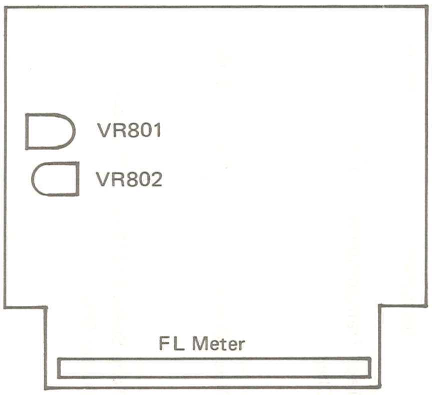
MIC INPUT
0.23 mV
−70.5 dB
MIC AMP
LINE INPUT
70 mV
−21 dB
REC VOL
BUFFER AMP
38 mV
−26.2 dB
BIAS TRAP
SOURCE
TAPE
33 mV
−27.4 dB
DOLBY B/C
TP3.4
580 mV
−2.5 dB
33 mV
−27.4 dB
SOURCE
TAPE
P/B
REC
METER DRIVE AMP
FL₁ PEAK METER
METER ADJ
OUTPUT VOL
LINE OUTPUT
500 mV
−3.6 dB
HEAD PHONE AMP
Non Lord 500 mV
8Ω Lord 90 mV
0dB = 775 mV 400HZ
580 mV
−2.5 dB
REC EQ
REC AMP
BIAS TRAP
REC HEAD
Metal 1.4 mV −55 dB
CrO₂ 1.2 mV −56 dB
Normal 0.9 mV −59 dB
PLAY HEAD
PB AMP
BIAS TRAP
PB GAIN ADJ
0.22 mV
−71 dB
400HZ 200mWb/m
63 mV
−22 dB

Adjustment Locations

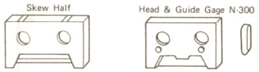
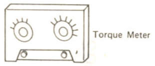
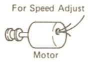
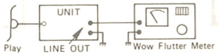
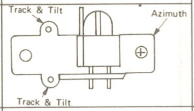
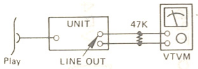
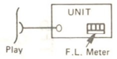
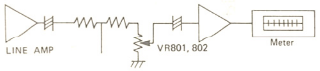
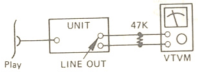
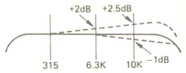
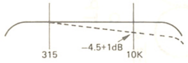
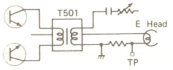

BIAS – CrO₂
"R"
"L"
VR503
VR504
T501
TP8
TP7
G
VR505
"L"
"R"
VR506
METAL – BIAS
TP1
TP2
VR202
PB GAIN
VR201
TP4
IC302
TP3
IC301
"L" —— REC —— "R"
CURRENT
VR501
VR502
TP6
TP5
VR404
VR403
LF301
BIAS – NORM (L, R)
TP9
VR508
LF302
Master PCB
Front

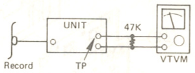
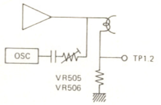
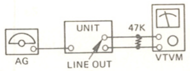
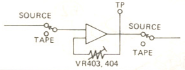
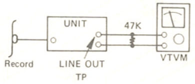
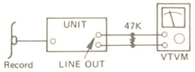
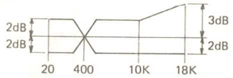
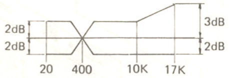
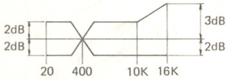
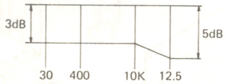
VR201; 22KB	P/B Gain Adj	(L-ch)
VR202; 22KB	P/B Gain Adj	(R-ch)
VR403; 10KB	Source MON	(L-ch)
VR404; 10KB	Source MON	(R-ch)
VR501; 47KB	REC Level Adj	(L-ch)
VR502; 47KB	REC Level Adj	(R-ch)
VR503; 100KB	Bias Adj. Cr02	(L-ch)
VR504; 100KB	Bias Adj. Cr02	(R-ch)
VR505; 100KB	Bias Adj. Metal	(L-ch)
VR506; 100KB	Bias Adj. Metal,	(R-ch)
VR508; 2.2KB	Bias Adj. Normal	(L/R-ch)
VR801; 4.7KB	Meter Adj	(L-ch)
VR802; 4.7KB	Meter Adj	(R-ch)

T501; Bias OSC Frequecy Adj


VR801
VR802
FL Meter

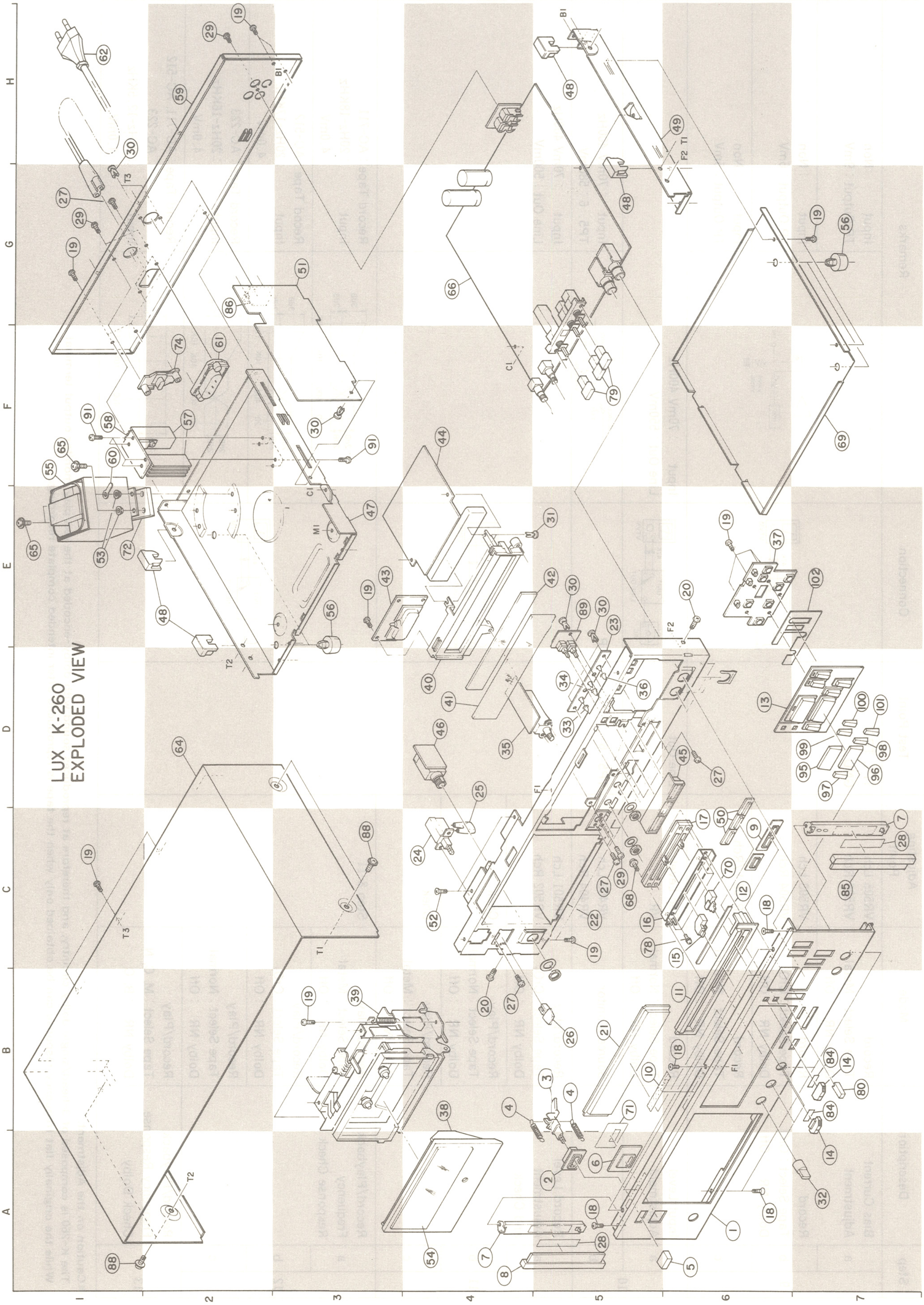
Adjustment Procedures

Step	Description	Mode	Adjusting Point	Test Point	Connection	Remarks
1	Tape Transportation Chek	Play	 Skew Half Head & Guide Gage N-300			Make sure that does not the tape guide of erase and R/P heads, by using "Skew Half". Confirm that R/P head is placed without any tilt against the "MM-300" gage.
2	Torqe Check	Play, FF & Rew	 Torque Meter			Take Up Torque : 35-60 g. cm Back Tension Torque : 2-6 g. cm FF & Rew Torque : 70-130g. cm
3	Tape Speed and Wow Flutter Check	Playback	 For Speed Adjust Motor	Line Out	 UNIT Play LINE OUT Wow Flutter Meter	Test Tape : MTT-111 (3KHz) Speed : 3000Hz±1.5% Adjust fo read 3005~3015Hz at the begining of tape take up Wow Flutter : No more than 0.05% (JIS W.R.M.S.)
4	Head Azimuth Adjustment	Playback	 Track & Tilt Azimuth Track & Tilt		 UNIT 47K Play LINE OUT VTVM	Test Tape : MTT-114 (10KHz) or MTT-215C (315Hz, 10KHz) Line Out : Maximum of both channel
5	Playback Dolby Level Adjustment	Playback Tape Select : Normal Dolby NR : Off	VR201 Lch VR202 Rch	TP3. 4		Test Tape : MTT-150 (400Hz, 200nWb/m) TP3. 4 : 580mV
6	FL Meter Adjustment	Playback	VR801a Lch VR801b Rch	Meter Display	 UNIT Play F.L. Meter	 LINE AMP VR801, 802 Meter Test Tape : MTT-150 Meter Display : 0 dB
7 a	Playback Frequency Response Check	Playback Tape Slect : Normal Dolby NR : Off	Step 1-5	Line Out	 UNIT 47K Play LINE OUT VTVM	 Test Tape : MTT217L or MTT-215C
7 b		Playback Tape Select : CrO$_2$ Dolby NR : Off				 Test Tape : MTT-114 or MTT-215CC
7 c		Playback Tape Slect : Metal Dolby NR : Off				
8	Bias OSC Frequency Check	Record Tape Select : Metal Dolby NR : Off	T501	Erase Current TP7-TP8(GND)		 T501 E Head TP Input : Non Tp Output : 105KHz±5KHz 260mV±20mV

Step		Description	Mode	Adjusting Point	Test Point	Connection	Remarks	
9	a	Bias Current Adjustment	Record Tape Select : Metal Dolby NR : Off	VR505 Lch VR506 Rch	TP1, TP2 GND			Input Non TP Output : 9mV
	b	Record Tape Select : CrO Dolby NR : Off	Record Tape Select : CrO$_2$ Dolby NR : Off	VR503 Lch VR504 Rch				Input : Non TP Output : 6mV
	c		Record Tape Select : Normal Dolby NR : Off	VR508 L/Rch				Input : Non TP Output : 5mV
10	a	Input Level Adjustment	Record Tape Select : Normal Dolby NR : Off	Rec Level VR	Line Out		Input : 70mV 400Hz Line Out : 550mV	
	b		Source Monitor	VR403 Lch VR404 Rch	TP5. 6	TP		Input : 70mV 400Hz TP5. 6 : 580mV
11	a	Record Level Adjustment and Check	Record/play Tape Select : CrO$_2$ Dolby NR : Off	VR501 Lch VR502 Rch				Input : 70mV 400Hz Line Out : 500mV
	b		Record/Play Tape Select : Normal Dolby NR : Off	Chek				
	c		Record/Play Tape Select : Metal Dolby NR : Off	Chek				
12	a	Record/Playback Frequency Response Check	Record/Play Tape Select : Metal Dolby NR : Off	Step 8-11				Record Tape : AC-711 Input : 20Hz-18KHz 4.0mV
	b		Record/Play Tape Select : CrO$_2$ Dolby NR : Off					Recod Tape : AC-512 Input : 20Hz-17KHz 4.0mV
	c		Record/Play Tape Select : Normal Dolby NR : Off					Record Tape : AC-223 Input : 20Hz-16KHz 4.0mV
13		Record/Playback Frequency Response Check Dolby	Record/Play Tape Select : M, C, N Dolby NR : B, C					Record Tape : AC-711, AC-512 AC-223 Input : 20Hz-12.5KHz 4.0mV

※Caution on the Adjstment.
The K-260 is composed of 3-head/single dolby circuitry, and therefore at reproduces sound with dolby-encoded at the rec/play monitor output terminal.
While the originally flat frequency response can be obtained only when the tape is reproduced after intended complate recording.

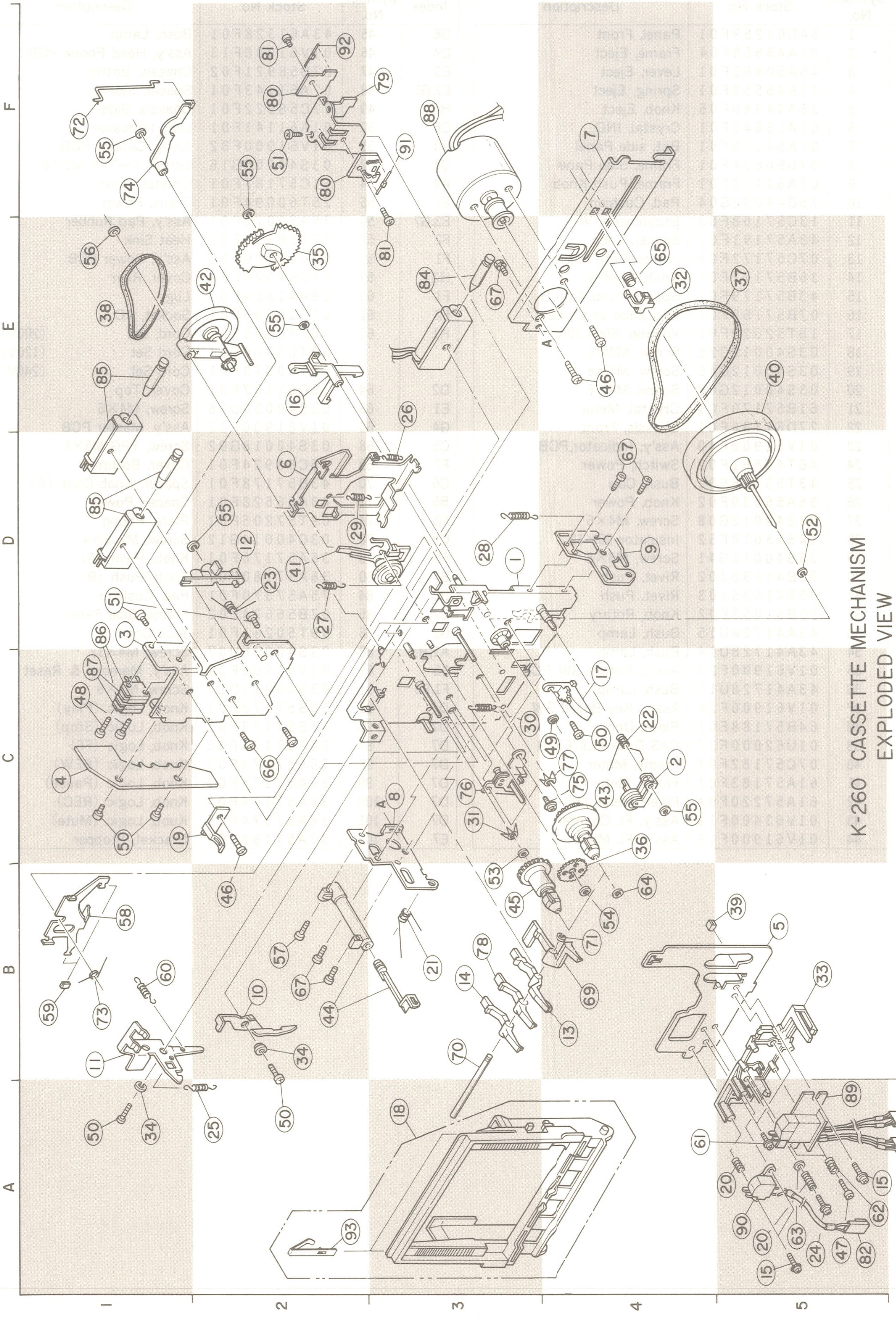
Exploded View


LUX K-260
EXPLODED VIEW
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
T1
T2
T3
B1
F1
F2
C1
M1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
64
65
66
68
69
70
71
72
74
78
79
80
84
85
86
88
89
91
95
96
97
98
99
100
101
102

Exploded View Parts List

Index	Symbol No.	Stock No.	Description
A6	1	64D61259F01	Panel, Front
A5	2	07A45558F04	Frame, Eject
B5	3	45A50461F01	Lever, Eject
B4,B5	4	41A45559F01	Spring, Eject
A6	5	36A44340F05	Knob, Eject
A5	6	61A56641F01	Crystal, IND
A4,C7	7	07A57175F01	Bkt, side Panel
A4	8	07B56624F01	Frame, Side Panel
C6	9	07A61138F01	Frame, Push Knob
B5	10	75B44032G04	Pad, Cushion
B6	11	13C57168F03	Escutcheon, VR
C6	12	43A57191F01	Spacer, Escu
D6	13	07C57172F01	Frame Knob Logic
A7,B7	14	36B57177F01	Knob, Control
C6	15	43B57179F01	Spacer Konb, Con B
C5	16	07B57169F01	Bkt, Slide Volu, me
C6	17	18T52629F01	Volume, Slide 20K
A5,A7	18	03S40012G26	Screw, M3×6
B3,C1	19	03S40012G48	Screw, M3×6
B4,E6	20	03S40012G08	Screw, M4×6
B5	21	61B57170F01	Cryatal, Meter
C5	22	27D61136F01	Chassis, Front
E5	23	01V61900F40	Ass'y, Indicator,PCB
C4	24	40T45561F02	Switch, Power
D4	25	43T53136F01	Bush, Cap
B5	26	36A56639F02	Knob, Power
A4,C5	27	03S40012G08	Screw, M4×6
A5,C7	28	14S53018F52	Insulator 50×12
C5,G1	29	03S40012G41	Screw, M3×8
E5	30	05B41635J02	Rivet, Push
E5	31	05B41635J03	Rivet, Push
A7	32	36B51053F02	Knob, Rotary
D5	33	43A41728U15	Bush, Lamp
D5	34	43A41728U14	Bush, Lamp
D4	35	01V61900F20	Ass'y, Rotary SW PCB
D5	36	43A41728U11	Bush, Lamp
E6	37	01V61900F26	Ass'y, Key Board SW
B4	38	64B57188F01	Plate, Door
B3	39	01U62000F37	CAS Deck FL87E32H
D4	40	07C57182F01	Frame, Meter
D4	41	61A57183F01	Folter, Meter (A)
E5	42	61A57220F01	Filter, Meter (B)
E3	43	01V63400F11	Ass'y, FL Counter
F4	44	01V61900F19	Ass'y, FL Meter
D6	45	43A61328F01	Bush, Lamp
D4	46	01V61900F13	Ass'y, Head Phone PCB
E3	47	27D58921F02	Chassis, Bottm
E2,G5	48	07A61143F01	Spacer, Side
H6	49	27C58922F01	Chassis, Side
C6	50	01A61141F01	Lens Indtcator
G3	51	01V61900F32	Ass'y, Control PCB
C4	52	03S44205G16	Screw, T—Tite M3×6
A4	54	61C57187F01	Crystal, Door
E1	55	25T60094F01	Trans, Power
E3,G7	56	75A60070F01	Ass'y, Pad Rubber
F2	57	07T56351F02	Heat Sink
F1	58	01V63100F35	Ass'y, Power PCB
H2	59	15C58925F04	Cover, Rear
F1	60	29A41814F01	Lug
F2	61	09T60095F01	Socket, AC
H1	62	30T60805F01	Cord, Set (200V)
		30T60804F01	Cord Set (120V)
		30T60973F01	Cord Set (240V)
D2	64	15D61137F01	Cover, Top
E1	65	03S40036U16	Screw, M4×6
G4	66	01V61900F12	Ass'y, Master PCB
C5	68	03S40018G02	Screw, TPG M3×8
F7	69	15C58924F01	Cover, Bottom
C6	70	43B57178F01	Spacer, Knob Cont (A)
B5	71	43A56628F01	Spacer, Power
F2	74	09T57205F01	Plate, Phono
C5	78	03C40014G12	Screw, M2.6×4
F5	79	36A57176F01	Knob, Push (A)
B7	80	36A57180F01	Knob, Push (B)
B2	84	75A57370F01	Pad, Cushion
C7	85	07B56624F02	Frame, Side Panel
G2	86	09T50261F01	Jack Cont
A1,B3	88	03S40036U07	Screw, M4×12
E5	89	01V61900F21	Ass'y, Memory & Reset
F1,F3	91	03S40011G17	Screw, M3×6
D7	95	36B57173F01	Knob, Logic (Play)
D7	96	36B57173F02	Knob, Logic (Stop)
D7	97	36A57174F01	Knob, Logic (FF)
D7	98	36A57174F02	Knob, Logic (REW)
D7	99	36A57174F03	Knob, Logic (Pause)
D7	100	36A57174F04	Knob, Logic (REC)
D7	101	36A57174F05	Kuob, Logic (Mute)
E7	102	07A57192F01	Bracket, Stopper

Exploded View (Mecha)

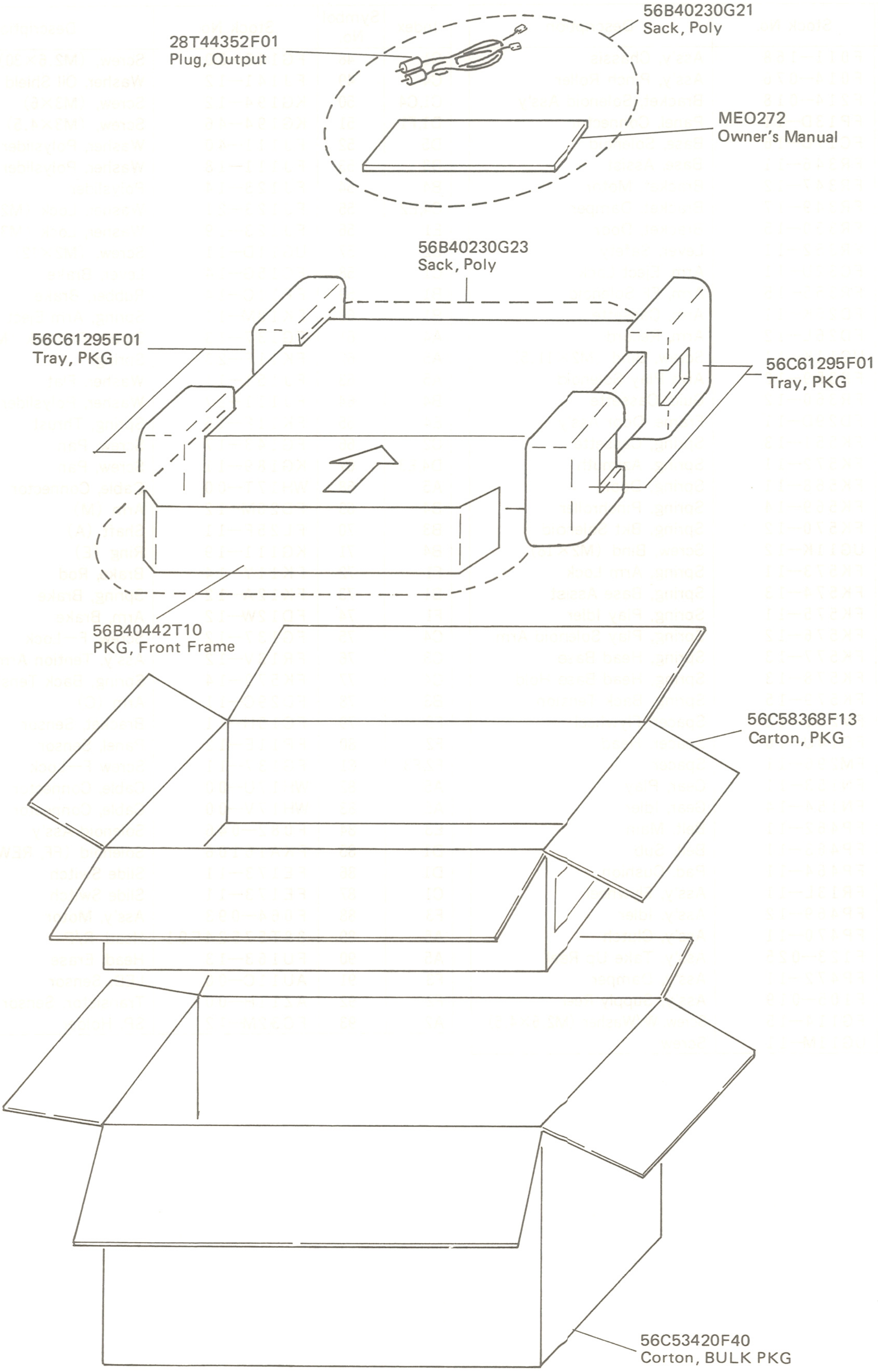

F
E
D
C
B
A
1
2
3
4
5
72
55
74
81
92
80
79
51
80
91
55
88
7
35
81
56
42
38
84
67
65
32
37
55
85
16
26
46
40
6
67
67
29
28
9
52
85
55
12
41
1
23
51
27
3
86
87
48
17
30
22
49
50
66
77
2
4
76
75
43
55
8
31
50
19
53
36
64
45
54
46
58
39
5
57
71
21
78
67
60
14
69
10
33
44
59
73
13
11
34
70
89
68
50
34
25
50
18
61
83
15
20
62
90
20
63
24
47
82
93
15

K-260 CASSETTE MECHANISM
EXPLODED VIEW

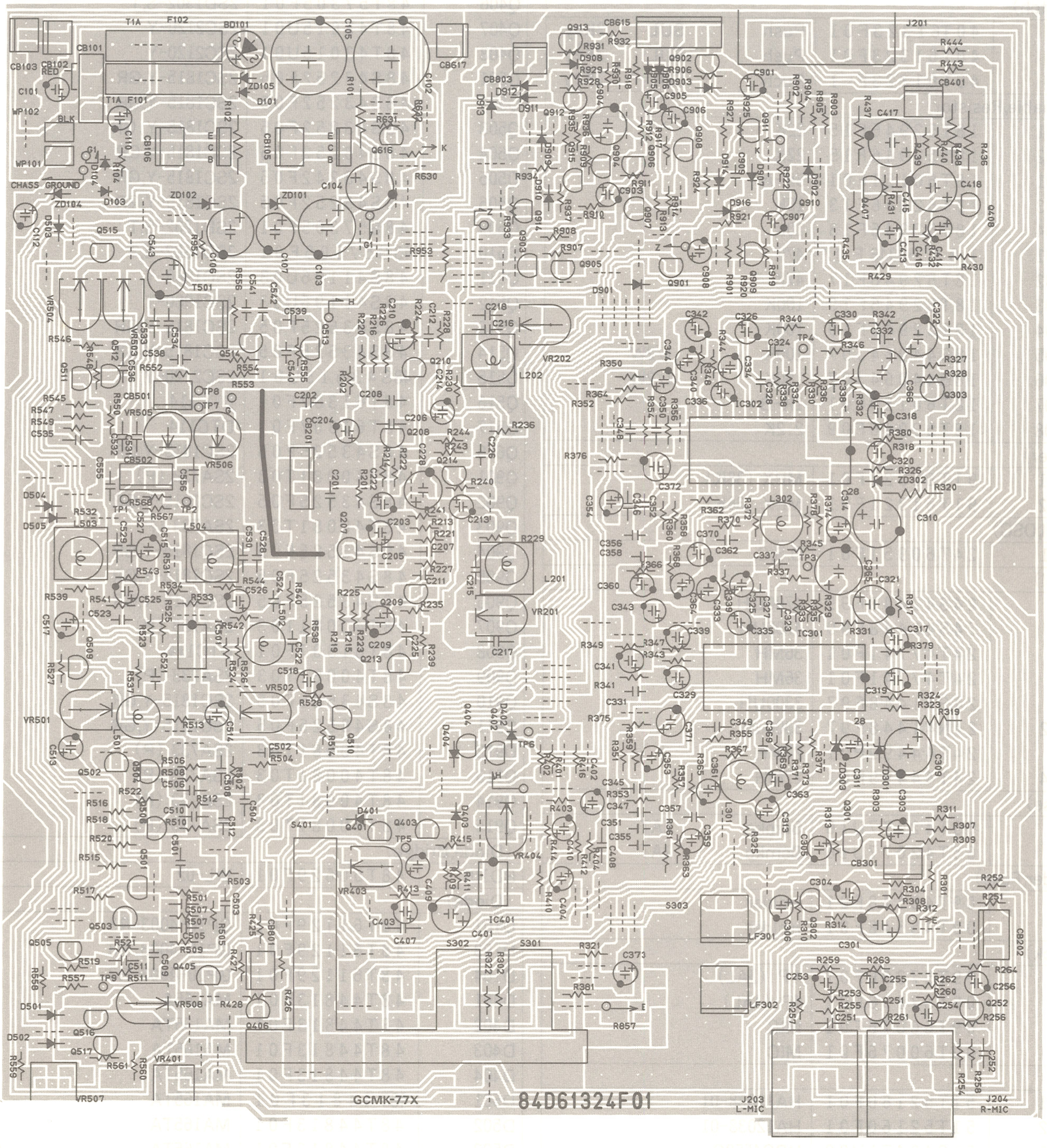
Exploded View (Mecha) Parts List

Index	Symbol No.	Stock No.	Description
D3	1	F011—168	Ass'y, Chassis
C4	2	F014—076	Ass'y, Pinch Roller
D1	3	F214—018	Bracket, Solenoid Ass'y
C1	4	FP13D—11	Panel, Connector
B5	5	FC17D—16	Base, Solenoid
D2	6	FR346—11	Base, Assist
F4	7	FR347—12	Bracket, Motor
C3	8	FR349—17	Bracket, Damper
D4	9	FR350—15	Bracket, Door
B2	10	FR352—11	Lever, Safety
B1	11	FC32U—11	Arm, Eject Lock
D2	12	FR355—15	Arm, FF Solenoid
B4	13	FD26K—11	Arm, Cassette
B3	14	FD26L—12	Arm, Record
A5	15	UG11K—11	Screw, Bind (M2×11.5)
E2	16	FR359—12	Arm Play Solenoid
C4	17	FR360—12	Guid, Cassette
A3	18	FD29D—11	Frame, Door Ass'y
C1	19	FK551—13	Spring, Cassette
A5	20	FK572—11	Spring, Azimuth
B3	21	FK568—11	Spring, Door
C4	22	FK569—14	Spring, Pinchroller
D2	23	FK570—12	Spring, Bkt Solenoid
A5	24	UG11K—12	Screw, Bind (M2×18)
A2	25	FK573—11	Spring, Arm Lock
E3	26	FK574—13	Spring, Base Assist
D2	27	FK575—11	Spring, Play Idler
D3	28	FK576—12	Spring, Play Solenoid Arm
D2	29	FK577—13	Spring, Head Base
C3	30	FK578—13	Spring, Head Base Hold
C3	31	FK579—15	Spring, Back Tension
E4	32	FM281—12	Spacer, Flywheel
B5	33	FD14U—16	Spacer, Head
A1,B2	34	FM296—11	Spacer
E2	35	FN153—11	Gear, Play
C4	36	FN154—14	Gear, Idler
E5	37	FP462—11	Belt, Main
E1	38	FP463—11	Belt, Sub
B5	39	FP464—11	Pad, Cushion
E5	40	FR13L—11	Ass'y, Flywheel
D2	41	FP469—12	Ass'y, Idler
E2	42	FP470—11	Ass'y, Clutch
C4	43	F123—025	Ass'y, Take Up Reel
B2	44	FP472—11	Ass'y, Damper
B3	45	F105—019	Ass'y, Supply Reel
B2,E4	46	FG114—15	Screw, W/Washer (M2.6×4.5)
A5	47	UG11M—11	Screw
C1	48	FG143—30	Screw, (M2.6×30)
C4	49	FJ141—12	Washer, Oil Shield
C1,C4	50	KG194—12	Screw, (M3×6)
D1,F1	51	KG194—46	Screw, (M3×4.5)
D5	52	FJ111—40	Washer, Polyslider
B3	53	FJ111—18	Washer, Polyslider (M2)
B4	54	FJ123—14	Polyslider
C4,E2	55	FJ123—21	Washer, Lock (M2.6)
E1	56	FJ123—19	Washer, Lock (M3.5)
B2	57	UG11D—11	Screw, (M2×12)
C1	58	FC15G—14	Lever, Brake
B1	59	FF11C—14	Rubber, Brake
B1	60	FK18M—11	Spring, Arm Eject
A4	61	FG137—13	Screw, F—Lock (M2×5)
A5	62	FK11F—23	Spring
A5	63	FJ151—11	Washer, Flat
B4	64	FJ111—17	Washer, Polyslider
E4	65	FK11F—16	Spring, Thrust
C2	66	FG143—17	Screw, Pan
D4,E3	67	KG189—11	Screw, Pan
A5	68	WH17T—00	Cable, Connector
B4	69	FD26M—12	Arm (M)
B3	70	FL25F—11	Shaft (A)
B4	71	KG111—19	Ring (E)
F1	72	FK11Y—14	Brake, Rod
B1	73	FK12A—12	Spring, Brake
F1	74	FD12W—12	Arm, Brake
C4	75	FG137—12	Screw, F—Lock
C3	76	FR13V—12	Ass'y, Tention Arm
C4	77	FK579—14	Spring, Back Tension
B3	78	FD29C—11	Arm (C)
F3	79	FC15H—11	Bracket, Sensor
F2	80	FP11E—12	Panel, Sensor
F2,F3	81	FG137—11	Screw F—Lock
A5	82	WH17U—00	Cable, Connector
A5	83	WH17V—00	Cable, Connector
E3	84	F082—046	Solenoid Ass'y
D1	85	PKA16106	Solenoid (FF, REW)
D1	86	FE173—11	Slide Switch
C1	87	FE173—11	Slide Switch
F3	88	F064—093	Ass'y, Motor
A5	89	88T57524F01	Head, R/P
A5	90	FU163—13	Head, Erase
F3	91	AU11C—00	LED, Sensor
F2	92	AZ11H—00	Transistor, Sensor
A2	93	FC32M—12	SP, Holder

Paking Material Parts List


56B40230G21
Sack, Poly
28T44352F01
Plug, Output
MEO272
Owner's Manual
56B40230G23
Sack, Poly
56C61295F01
Tray, PKG
56C61295F01
Tray, PKG
56B40442T10
PKG, Front Frame
56C58368F13
Carton, PKG
56C53420F40
Corton, BULK PKG

Master Board


T1A
F102
BD101
CB101
CB102
RED
BLK
WP102
WP101
CHASS GROUND
T1A F101
J201
J203
L-MIC
J204
R-MIC
IC301
IC302
IC401
VR201
VR202
VR401
VR403
VR404
VR501
VR502
VR504
VR505
VR506
VR507
VR508
L201
L202
L301
L302
L503
L504
T501
LF301
LF302
S301
S302
S303
S401
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
GCMK-77X
84D61324F01

Master Board Parts List

Symbol No.	Stock No.	Description
(Switch)		
S301	40T61323F01	Push SUL 3Key
S302	40T61323F01	Push SUL 3Key
S401	40T61323F−1	Puch SUL 3Key
(Variabie,Resistor)		
VR201	18T52946F15	22K
VR202	18T52946F15	22K
VR401	18T60151F01	5K-A
VR403	18T52946F13	10K
VR404	18T52946F13	10K
VR501	18T52946F17	47K
VR502	18T52946F17	47K
VR503	18T52946F19	100K
VR504	18T52946F19	100K
VR505	18B44064J07	100K 1/2W
VR506	18B44064J07	100K 1/2W
VR507	18T60150F01	1K-B
VR508	18T52946F09	2.2K
(Filter)		
LF301	91T61321F01	MPX (38K)
LF302	91T61321F01	MPX (38K)
(Coil,OSC)		
T501	24T60951F01	O,S,C,
(Coil)		
L201	24S42448F99	4700UH
L202	24S42448F99	4700UH
L301	24T47741F01	36MH
L302	24T47741F01	36MH
L501	24S41448F97	3300UH
L502	24N41448F97	3300uH
L503	24T44499P01	27MH
L504	24T44499P01	27MH
(Fuse)		
F101	65T42077U16	Semko 1AT
F102	65T42077U16	Semko 1AT
Holder,Fuse)		
F101	09T45548F01	Holder
F102	09T45548F01	Holder
(Jack)		
J201	09T57396F01	4P (JAL)
J202	09T57396F01	4P (JAL)
J203	09T60076F01	MIC
J204	09T60076F01	MIC
(IC)		
IC301	51T52160F01	HA12038-01
IC302	51T52160F01	HA12038-01
IC401	51S43471U02	UPC4558C
IC501	51S43471U02	UPC4558C
(Transistor,FET)		
Q213	48F43525F05	2SC1815-Y,GR
Q214	48S43525F05	2SC1815-Y,GR
Q301	48S43525F05	2SC1815-Y,GR
Q302	48S43525F05	2SC1815-Y,GR
Q303	48S43525F05	2SC1815-Y,GR
Q401	48S47729F02	2SK117 BL
Q402	48S47729F02	2SK117 BL
Q403	48S47729F02	2SK117 BL
Q404	48S47729F02	2SK117 BL
Q405	48T57305F01	2SD1302-S,TT
Q406	48T57305F01	2SD1302-S,T
Q407	48T43015U01	2SC2120-Y
Q408	48T43015U01	2SC2120-Y
Q501	48S43252F05	2SC1815-Y,GR
Q502	48S43252F05	2SC1815-Y,GR
Q503	48S43252F05	2SC1815-Y,GR
Q504	48S43252F05	2SC1815-Y,GR
Q505	48S43242F05	2SC1815-Y,GR
Q506	48S43252F05	2SC1815-Y,GR
Q509	48S57305F01	2SD1202-S,T
Q510	43S57305F01	2SD1302-S,T
Q511	48S41196U03	2SC1980-T
Q512	48S41196U03	2SC1980-T
Q513	48S43525F05	2SC1815-Y,GR
Q514	48S43525F05	2SC1815-Y,GR
Q515	48S43515U01	2SC2120-Y
Q516	48T61307F01	DTC114
Q517	48T61307F01	DTC114
Q616	48S43525F05	2SC1815-Y,GR
Q901	48T40081T03	2SA733 (P)
Q902	48S43525F05	2SC1815-Y,GR
Q903	48T40081T03	2SA733 (P)
Q904	48S43525F05	2SC1815-Y,GR
Q905	48S43525F05	2SC1815-Y,GR
Q906	48S43525F05	2SC1815-Y,GR
Q907	48T40081T03	2SA733 (P)
Q908	48T61307F01	DTC114
Q909	48T40081T03	2SA733 (P)
Q910	48S43525F05	2SC1815-Y,GR
Q911	48S43525F05	2SC1815-Y,GR
Q912	48T40081T03	2SA733 (P)
Q913	48T40081T03	2SA733 (P)
Q914	48T40081T03	2SA733 (P)
Q915	48T40081T03	2SA733 (P)
(Diode,Bridge)		
BD101	48T50629F01	WL-02
(Diode)		
D101	48T61129F01	GP10-4003-R3
D103	48T61129F01	GP10-4003-R3
D104	48T61129F01	GP10-4003-R3
D401	48T44813F01	MA165A
D402	48T44813F01	MA165TA
D403	48T44813F01	MA165TA
D404	48T44813F01	MA165TA
D501	48T44813F01	MA165TA
D502	48T44813F01	MA165TA
D503	48T44813F01	MA165TA
D504	48T44813F01	MA165TA
D505	48T44813F01	MA165TA
D901	48T44813F01	MA165TA
D902	48T44813F01	MA165TA
D903	48T44813F01	MA165TA
D905	48T44813F01	MA165TA
D906	48T44813F01	MA165TA
D907	48T44813F01	MA165TA
D908	48T44813F01	MA165TA
D909	48T44813F01	MA165TA
D910	48T44813F01	MA165TA
D911	48T44813F01	MA165TA

Symbol No.	Stock No.	Description		
D912	48T44813F01	MA165TA		
D913	48T44813F01	MF165TA		
D914	48T44813F01	MA165TA		
D916	48T44813F01	MA165TA		
(Diode,Zener)				
ZD101	48T40150U80	HZ20-2		
ZD102	48T40150U66	HZ12B-3		
ZD104	48T40150U52	HZ11A1		
ZD105	48T40150U71	HZ15-2		
ZD301	48T40150U68	HZ12C-2		
ZD302	48T40150U68	HZ12C-2		
ZD303	48T40150U32	HZ6B-2		
(Capacitor)				
C101	23S40657F28	1uF	50V	E1
C102	23S41198U67	1000uF	50V	E1
C103	23S41198U57	470uF	25V	E1
C104	23S41198U42	220uF	25V	E1
C105	23S41198U72	220uF	25V	E1
C106	23S41198U56	470uF	16V	E1
C107	23S40657F14	100uF	12V	E1
C110	23S40657F28	1uF	50V	E1
C112	23S40657F16	4.7uF	25V	E1
C201	08T55260F35	270pF		Ce
C202	08T55260F35	270pF		Ce
C203	23T42478F09	4.7uF	25V	E1
C204	23T42478F09	4.7uF	25V	E1
C205	08T55260F45	470pF		Ce
C206	08T55260F45	470pF		Ce
C207	08T55260F31	56pF		Ce
C208	08T55260F31	56pF		Ce
C209	23S40657F08	100uF	100V	E1
C210	23S40657F08	100uF	100V	E1
C211	08S40656F07	3300pF		My
C212	08S40656F07	3300pF		My
C213	23S40657F10	10uF	12V	E1
C214	23S40657F10	10uF	12V	E1
C215	08T55260F45	470pF		Ce
C216	08T55260F45	470pF		Ce
C217	08T55260F49	1000pF		Ce
C218	08T55260F49	1000pF		Ce
C222	23S40567F10	10uF	12V	E1
C225	08S40656F14	0.012uF		My
C226	08S40656F14	0.012uF		My
C228	23S40657F21	100uF	25V	E1
C251	08T55260F49	1000pF		Ce
C252	08T55260F49	1000pF		Ce
C253	23S40657F16	4.7uF	25V	E1
C254	23S40657F16	4.7uF	25V	E1
C255	23S40657F10	10uF	12V	E1
C256	23S40657F10	10uF	12V	E1
C301	23S40657F20	47uF	25V	E1
C303	23S40657F16	4.7uF	25V	E1
C304	23S40657F16	4.7uF	25V	E1
C305	23S40657F10	10uF	12V	EL
C306	23S40657F10	10uF	12V	E1
C309	23S40657F52	220uF	12V	E1
C310	23S40657F52	220uF	12V	E1
C311	23S40657F12	33uF	12V	E1
C313	23S40657F24	22uF	35V	E1

Symbol No.	Stock No.	Description		
C314	23S40657F24	22uF	35V	E1
C317	23S40657F28	1uF	50V	E1
C318	23S40657F28	1uF	50V	E1
C319	23S40657F28	1uF	50V	E1
C320	23S40657F28	1uF	50V	E1
C321	23S40657F08	100uF	100V	E1
C322	23S40657F08	100uF	100V	E1
C323	08S40656F15	0.015uF		My
C324	08S40656F15	0.015uF		My
C325	23S40657F10	10uF	12V	E1
C326	23S40657F10	10uF	12V	E1
C327	08T40656F13	0.01uF		My
C328	08T40656F13	0.01uF		My
C329	23S40657F16	4.7uF	25V	E1
C330	23S40657F16	4.7uF	25V	E1
C331	08S40656F16	0.018uF		My
C332	08S40656F16	0.018uF		My
C333	23T42478F21	0.33uF	50V	E1
C334	23T42478F21	0.33uF	50V	E1
C335	23T42478F21	0.33uF	50V	E1
C336	23T42478F21	0.33uF	50V	E1
C337	08S40656F15	0.015uF		My
C338	08S40656F15	0.015uF		My
C339	23S40657F28	1uF	50V	E1
C340	23S40657F28	1uF	50V	E1
C341	23S40657F28	1uF	50V	E1
C342	23S40657F28	1uF	50V	E1
C343	23S40657F10	10uF	12V	E1
C344	23S40656F10	10uF	12V	E1
C345	08T52260F27	39uF		Ce
C346	08T55260F27	39pF		Ce
C347	08S40656F10	5600pF		My
C348	08S40656F10	5600pF		My
C349	08T52260F49	1000pF		Ce
C350	08T55260F49	1000pF		Ce
C351	08S40656F07	3300pF		My
C352	08S40656F07	3300pF		My
C353	23S40657F10	10uF	12V	E1
C354	23S40657F10	10uF	12V	E1
C355	08S40656F08	3900pF		My
C356	08S40656F08	3900pF		My
C357	08S40656F24	0.082uF		My
C358	08S40656F24	0.082uF		My
C359	23S40657F16	4.7uF	25V	E1
C360	23S40657F16	4.7uF	25V	E1
C361	23T42478F19	0.15uF	50V	E1
C362	23T42478F19	0.15uF	50V	E1
C363	23S40657F27	0.47uF	50V	E1
C364	23S40657F27	0.47uF	50V	E1
C365	23S40657F09	220uF	100V	E1
C366	23S40657F09	220uF	100V	E1
C369	08S40657F04	1800pF		My
C370	08S40657F04	1800pF		My
C371	23S40657F10	10uF	12V	E1
C372	23S40657F10	10uF	12V	E1
C373	23S40657F10	10uF	12V	E1
C374	23S40657F10	10uF	12V	E1
C401	23S40657F21	100uF	25V	E1
C402	23S40657F13	47uF	12V	E1

Symbol No.	Stock No.	Description		
C403	23T42478F19	0.15uF	50V	E1
C404	23T42478F19	0.15uF	50V	E1
C407	08T55260F25	33pF		Ce
C408	08T55260F25	33pF		Ce
C409	23S40657F10	10uF	12V	E1
C410	23S40657F10	10uF	12V	E1
C413	23S40657F29	2.2uF	50V	E1
C414	23S40657F29	2.2uF	50V	E1
C415	08T55260F33	68pF		Ce
C416	08T55260F33	68pF		Ce
C417	23S40657F09	220pF	100V	E1
C418	23S40657F09	220pF	100V	E1
C501	08T55260F49	100pF		Ce
C502	08T55260F49	100pF		Ce
C503	08S44503P06	0.0027uF		My
C504	08S44503P06	0.0027uF		My
C505	08T55260F45	470pF		Ce
C506	08T55260F45	470pF		Ce
C507	08S44503P02	0.0012uF		My
C508	08S44503P02	0.0012uF		My
C509	08T55260F44	390pF		Ce
C510	08T55260F44	390pF		Ce
C511	08S44503P02	0.0012uF		My
C512	08S44503P02	0.0012uF		My
C513	23S40657F16	4.7uF	25V	E1
C514	23S40657F16	4.7uF	25V	E1
C515	23S40657F10	10uF	12V	E1
C517	23S40657F28	1uF	50V	E1
C518	23S40657F28	1uF	50V	E1
C521	08S40656F11	6800pF		My
C522	08S40656F11	6800pF		My
C523	08S40656F25	0.1uF		My
C524	08S40656F25	0.1uF		My
C525	23S40657F16	4.7uF	25V	E1
C526	23S40657F16	4.7uF	25V	E1
C527	08T55260F43	330pF		Ce
C528	08T55260F43	330pF		Ce
C529	08T55260F35	82pF		Ce
C530	08T55260F35	82pF		Ce
C531	08T55260F49	1000pF		Ce
C532	08T55260F49	1000pF		Ce
C533	08T55260F43	330pF		Ce
C534	08T55260F43	330pF		Ce
C535	08T55260F49	1000pF		Ce
C536	08T55260F49	1000pF		Ce
C538	08T52448F35	8200pF		Pp
C539	08S40656F11	6800pF		My
C540	08S40656F07	3300pF		My
C541	08S40657F07	3300pF		My
C542	08S40656F13	0.01uF		My
C543	23S40657F20	47uF	2.5V	E1
C555	08T55260F43	330pF		Ce
C556	08T55260F43	330pF		Ce
C901	23S40657F28	1uF	50V	E1
C903	23S40657F16	4.7uF	25V	E1
C904	23S40657F21	100uF	25V	E1
C905	23S40657F16	4.7uF	25V	E1
C906	23S40657F10	10uF	12V	E1
C907	23S40657F16	4.7uF	25V	E1

Symbol No.	Stock No.	Description		
C908	23S40657F24	22uF	35V	E1
C909	08S40656F25	0.1uF		My
(Resistor)				
R101	06T55177F69	1.5K	1W	Rm
R102	06T55177F53	330	1W	Rm
R104	06S55065F89	10K	1/6W	Rd
R201	06S55066F10	66K	1/6W	Rd
R202	06S55066F10	68K	1/6W	Rd
R213	06S55066F14	100K	1/6W	Rd
R214	06S55066F14	100K	1/6W	Rd
R215	06S55065F53	330	1/6W	Rd
R216	06S55065F53	330	1/6W	Rd
R219	06S55066F22	220K	1/6W	Rd
R220	06S55066F22	220K	1/6W	Rd
R221	06S55065F97	22K	1/6W	Rd
R222	06S55065F97	22K	1/6W	Rd
R223	06S55065F69	1.5K	1/6W	Rd
R224	06S55065F69	1.5K	1/6W	Rd
R225	06S55066F02	33K	1/6W	Rd
R226	06S55066F02	33K	1/6W	Rd
R227	06S55066F37	910K	1/6W	Rd
R228	06S55066F37	910K	1/6W	Rd
R229	06S55065F81	4.7K	1/6W	Rd
R230	06S55065F81	4.7K	1/6W	Rd
R235	06S55065F83	5.6K	1/6W	Rd
R236	06S55065F83	5.6K	1/6W	Rd
R239	06S55065F97	22K	1/6W	Rd
R240	06S55065F97	22K	1/6W	Rd
R241	06S55065F99	27K	1/6W	Rd
R243	06S55065F67	1.2K	1/6W	Rd
R244	06S55065F67	1.2K	1/6W	Rd
R251	06S55065F91	12K	1/6W	Rd
R252	06S55065F91	12K	1/6W	Rd
R253	06S55065F57	470	1/6W	Rd
R254	06S55065F57	470	1/6W	Rd
R255	06S55065F89	10K	1/6W	Rd
R256	06S55065F89	10K	1/6W	Rd
R257	06S55066F30	470K	1/6W	Rd
R258	06S55066F30	470K	1/6W	Rd
R259	06S55066F38	1M	1/6W	Rd
R260	06S55066F38	1M	1/6W	Rd
R261	06S55065F89	10K	1/6W	Rd
R262	06S55065F89	10K	1/6W	Rd
R263	06S55066F14	100K	1/6W	Rd
R264	06S55066F14	100K	1/6W	Rd
R301	06S55065F81	4.7K	1/6W	Rd
R302	06S55066F06	47K	1/6W	Rd
R303	06S55065F41	100	1/6W	Rd
R304	06S55065F41	100	1/6W	Rd
R307	06S55066F24	270K	1/6W	Rd
R308	06S55066F24	270K	1/6W	Rd
R309	06S55066F06	47K	1/6W	Rd
R310	06S55066F06	47K	1/6W	Rd
R311	06S55065F74	2.4K	1/6W	Rd
R312	06S55065F74	2.4K	1/6W	Rd
R313	06S55065F71	1.8K	1/6W	Rd
R314	06S55065F71	1.8K	1/6W	Rd
R319	06T55179F47	180	2W	Rm
R320	06T55179F47	180	2W	Rm

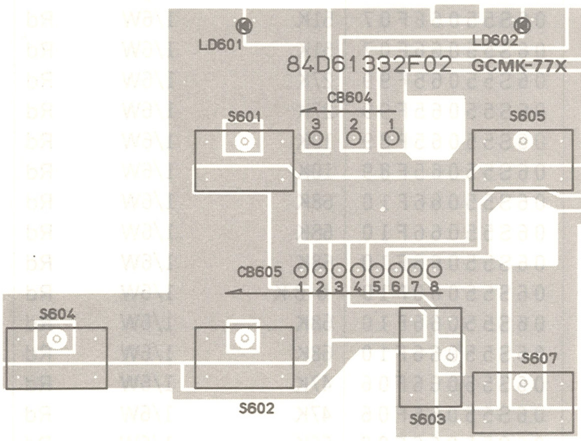
Symbol No.	Stock No.	Description		
R321	06S55065F81	4.7K	1/6W	Rd
R322	06S55065F83	5.6K	1/6W	Rd
R323	06S55065F73	2.2K	1/6W	Rd
R324	06S55065F87	8.2	1/6W	Rd
R325	06S55066F02	33K	1/6W	Rd
R326	06S55066F02	33K	1/6W	Rd
R327	06S55065F97	22K	1/6W	Rd
R328	06S55065F97	22K	1/6W	Rd
R329	06S55066F08	56K	1/6W	Rd
R330	06S55066F08	56K	1/6W	Rd
R331	06S55066F08	56K	1/6W	Rd
R332	06S55066F08	56K	1/6W	Rd
R333	06S55065F82	5.1K	1/6W	Rd
R334	06S55065F82	5.1K	1/6W	Rd
R335	06S55065F93	15K	1/6W	Rd
R336	06S55065F93	15K	1/6W	Rd
R337	06S55065F47	180	1/6W	Rd
R338	06S55065F47	180	1/6W	Rd
R339	06S55066F06	47K	1/6W	Rd
R340	06S55066F06	47K	1/6W	Rd
R341	06S55065F34	6.2K	1/6W	Rd
R342	06S55065F84	6.2K	1/6W	Rd
R343	06S55066F12	82K	1/6W	Rd
R344	06S55066F12	82K	1/6W	Rd
R345	06S55065F41	100	1/6W	Rd
R346	06S55065F41	100	1/6W	Rd
R347	06S55066F38	1M	1/6W	Rd
R348	06S55066F38	1M	1/6W	Rd
R349	06S55065F82	5.1K	1/6W	Rd
R350	06S55065F82	5.1K	1/6W	Rd
R351	06S55065F89	10K	1/6W	Rd
R352	06S55065F89	10K	1/6W	Rd
R353	06S55066F10	68K	1/6W	Rd
R354	06S55066F10	68K	1/6W	Rd
R355	06S55066F81	4.7K	1/6W	Rd
R356	06S55066F81	4.7K	1/6W	Rd
R357	06S55065F50	240	1/6W	Rd
R358	06S55065F50	240	1/6W	Rd
R359	06S55066F08	56K	1/6W	Rd
R360	06S55066F08	56K	1/6W	Rd
R361	06S55065F49	220	1/6W	Rd
R362	06S55065F49	220	1/6W	Rd
R363	06S55065F87	8.2K	1/6W	Rd
R364	06S55065F87	8.2K	1/6W	Rd
R365	06S55065F84	6.2K	1/6W	Rd
R366	06S55065F34	6.2K	1/6W	Rd
R367	06S55066F12	82K	1/6W	Rd
R368	06S55066F12	82K	1/6W	Rd
R369	06S55065F65	1K	1/6W	Rd
R370	06S55065F65	1K	1/6W	Rd
R371	06S55065F77	3.3K	1/6W	Rd
R372	06S55065F77	3.3K	1/6W	Rd
R373	06S55065F87	8.2K	1/6W	Rd
R374	06S55065F87	8.2K	1/6W	Rd
R375	06S55065F82	5.1K	1/6W	Rd
R376	06S55065F82	5.1K	1/6W	Rd
R377	06S55065F87	8.2K	1/6W	Rd
R378	06S55065F87	8.2K	1/6W	Rd
R379	06S55065F83	5.6K	1/6W	Rd

Symbol No.	Stock No.	Description		
R380	06S55065F83	5.6K	1/6W	Rd
R381	06S55065F65	1K	1/6W	Rd
R401	06S55065F67	1.2K	1/6W	Rd
R402	06S55065F67	1.2K	1/6W	Rd
R403	06S55065F89	10K	1/6W	Rd
R404	06S55065F89	10K	1/6W	Rd
R404	06S55065F89	10K	1/6W	Rd
R409	06S55065F73	2.2K	1/6W	Rd
R410	06S55065F73	2.2K	1/6W	Rd
R411	06S55066F30	470K	1/6W	Rd
R412	06S55066F30	470K	1/6W	Rd
R413	06S55065F99	27K	1/6W	Rd
R414	06S55065F99	27K	1/6W	Rd
R415	06S55066F14	100K	1/6W	Rd
R416	06S55066F14	100K	1/6W	Rd
R425	06S55065F53	330	1/6W	Rd
R426	06S55065F53	330	1/6W	Rd
R427	06S55065F81	4.7K	1/6W	Rd
R428	06S55065F81	4.7K	1/6W	Rd
R429	06S55065F55	390	1/6W	Rd
R430	06S55065F55	390	1/6W	Rd
R431	06S55066F12	32K	1/6W	Rd
R432	06S55066F12	32K	1/6W	Rd
R435	06T55177F53	330	1W	Rm
R436	06T55177F53	330	1W	Rm
R437	06T55175F29	33	1/2W	Rm
R438	06T55175F29	33	1/2W	Rm
R439	06S55065F89	10K	1/6W	Rd
R440	06S55065F89	10K	1/6W	Rd
R443	06S55065F65	1K	1/6W	Rd
R444	06S55065F65	1K	1/6W	Rd
R501	06S55066F02	33K	1/6W	Rd
R502	06S55066F02	33K	1/6W	Rd
R503	06S55066F01	30K	1/6W	Rd
R504	06S55066F01	30K	1/6W	Rd
R505	06S55066F12	82K	1/6W	Rd
R506	06S55066F12	82K	1/6W	Rd
R507	06S55066F04	39K	1/6W	Rd
R508	06S55066F04	39K	1/6W	Rd
R509	06S55066F07	51K	1/6W	Rd
R510	06S55066F07	51K	1/6W	Rd
R511	06S55065F99	27K	1/6W	Rd
R512	06S55065F99	27K	1/6W	Rd
R513	06S55065F89	10K	1/6W	Rd
R514	06S55065F89	10K	1/6W	Rd
R515	06S55066F10	68K	1/6W	Rd
R516	06S55066F10	68K	1/6W	Rd
R517	06S55066F10	68K	1/6W	Rd
R518	06S55066F10	68K	1/6W	Rd
R519	06S55066F10	68K	1/6W	Rd
R520	06S55066F10	68K	1/6W	Rd
R521	06S55066F06	47K	1/6W	Rd
R522	06S55066F06	47K	1/6W	Rd
R523	06S55066F08	56K	1/6W	Rd
R524	06S55066F08	56K	1/6W	Rd
R525	06S55065F77	3.3K	1/6W	Rd
R526	06S55065F77	3.3K	1/6W	Rd
R527	06S55065F99	27K	1/6W	Rd
R528	06S55065F99	27K	1/6W	Rd
R533	06S55065F89	10K	1/6W	Rd

Symbol No.	Stock No.	Description
R534	06S55065F89	10K 1/6W Rd
R537	06S55065F41	100 1/6W Rd
R538	06S55065F41	100 1/6W Rd
R539	06S55066F02	33K 1/6W Rd
R540	06S55066F02	33K 1/6W Rd
R541	06S55066F20	180K 1/6W Rd
R542	06S55066F20	180K 1/6W Rd
R543	06S55065F81	4.7K 1/6W Rd
R544	06S55065F81	4.7K 1/6W Rd
R545	06S55066F38	1M 1/6W Rd
R546	06S55066F38	1M 1/6W Rd
R547	06S55065F89	10K 1/6W Rd
R548	06S55065F89	10K 1/6W Rd
R549	06S55065F89	10K 1/6W Rd
R550	06S55065F89	10K 1/6W Rd
R552	06S55175F01	2.2 1/6W Rd
R553	06T55175F13	6.8 1/2W Rd
R554	06T55175F13	6.8 1/2W Rd
R555	06S55065F97	22K 1/6W Rd
R556	06S55065F97	22K 1/6W Rd
R557	06S55065F49	220 1/6W Rd
R558	06S55065F49	220 1/6W Rd
R559	06S55065F77	3.3K 1/6W Rd
R560	06S55065F89	10K 1/6W Rd
R561	06S55065F75	2.7K 1/6W Rd
R567	06S55065F17	10 1/6W Rd
R568	06S55065F17	10 1/6W Rd
R630	06S55065F97	22K 1/6W Rd
R631	06S55065F75	2.7K 1/6W Rd
R632	06S55065D89	10K 1/6W Rd
R901	06S55065F89	10K 1/6W Rd
R902	06S55065F89	10K 1/6W Rd
R903	06S55065D97	22K 1/6W Rd

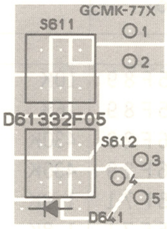
Symbol No.	Stock No.	Description
R904	06S55065D97	22K 1/6W Rd
R905	06S55065D97	22K 1/6W Rd
R906	06S55065F89	10K 1/6W Rd
R907	06S55065F89	10K 1/6W Rd
R908	06S55065F89	10K 1/6W Rd
R909	06S55065F81	4.7K 1/6W Rd
R910	06S55065F97	22K 1/6W Rd
R911	06S55065F97	22K 1/6W Rd
R912	06S55066F06	47K 1/6W Rd
R913	06S55065F89	10K 1/6W Rd
R914	06S55065F89	10K 1/6W Rd
R917	06S55065F87	8.2K 1/6W Rd
R918	06S55065F73	2.2K 1/6W Rd
R919	06S55065F97	22K 1/6W Rd
R920	06S55065F02	33K 1/6W Rd
R921	06S55065F97	22K 1/6W Rd
R922	06S55065F97	22K 1/6W Rd
R924	06S55065F97	22K 1/6W Rd
R925	06S55065F97	15K 1/6W Rd
R927	06S55066F02	33K 1/6W Rd
R928	06S55065F89	10K 1/6W Rd
R929	06S55065F89	10K 1/6W Rd
R930	06S55065F89	10K 1/6W Rd
R931	06S55065F89	10K 1/6W Rd
R932	06S55065F89	10K 1/6W Rd
R933	06S55065F89	10K 1/6W Rd
R934	06S55065F89	10K 1/6W Rd
R935	06S55065F89	10K 1/6W Rd
R936	06S55065F89	10K 1/6W Rd
R937	05S55065F89	10K 1/6W Rd
R953	06S41801P64	470K 1/4W Rd
R954	06S55066F30	470K 1/6W Rd

Key Board Switch PCB Parts List



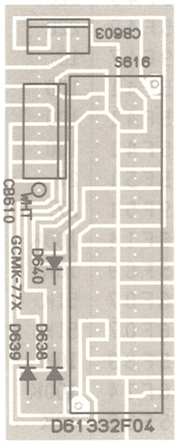
Symbol No.	Stock No.	Description
(Switch)		
S601	40T44505F01	SW, KHG
S602	40T44505F01	SW, KHG
S603	40T44505F01	SW, KHG
S604	40T44505F01	SW, KHG
S605	40T44505F01	SW, KHG
S606	40T44505F01	SW, KHG
S607	40T44505F01	SW, KHG

Memory & Reset PCB Parts List


GCMK-77X
S611
1
2
D61332F05
S612
3
4
5
D641

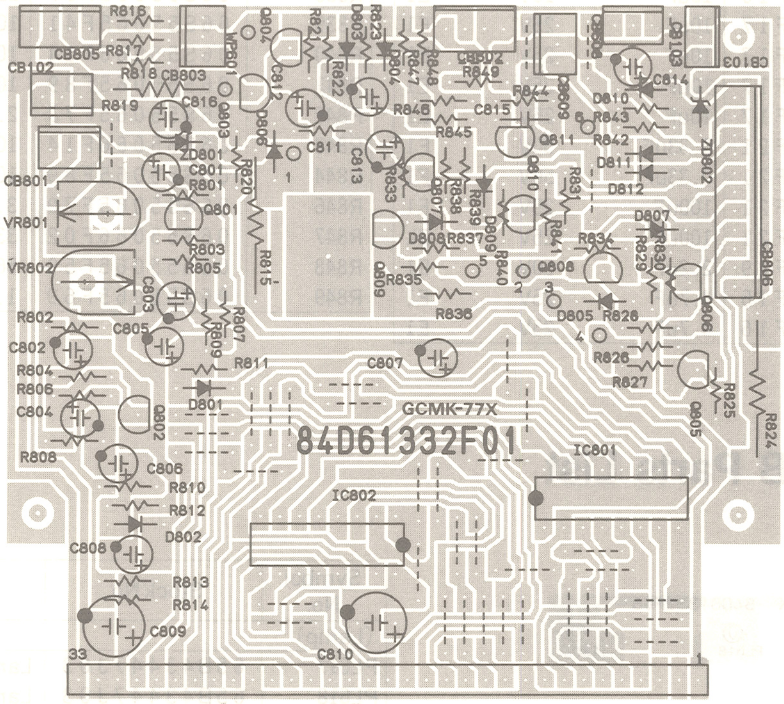
Symbol No.	Stock No.	Description
(Switch)		
	40T57207F01	SW, SPH12-A
	40T57208F01	SW, SPH12-A

Rotary Switch PCB Parts List


CB603
S616
CB610
WHT
GCMK-77X
D640
D638
D639
D61332F04

Symbol No.	Stock No.	Description
(Switch)		
S616	40T57206F01	Rotary, SRZ-S 6-4
(Diode)		
D638	48T44813F01	MA-165TA
D640	48T44813F01	MA-165TA

FL Meter PCB

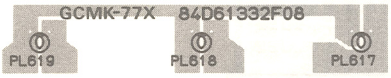

R816
CB805
R817
CB102
R818
CB803
R819
C816
MF801
Q804
C812
R821
D803
R823
D804
R822
CB802
R849
R847
R848
CB806
CB103
C810
C814
ZD801
C801
R801
Q803
Q801
R820
D806
C811
C813
R833
R846
R844
D810
R843
C815
R845
Q809
Q811
R842
D811
D812
ZD802
CB801
VR801
VR802
R803
R805
R815
R838
R839
D807
D808
R837
D809
R840
Q810
R831
R841
Q808
R834
R829
R830
CB808
C803
R835
Q809
R836
D805
R828
Q806
R802
C802
C805
R807
R809
R811
C807
R826
R827
R825
R824
Q805
R804
R806
C804
Q802
D801
GCMK-77X
84D61332F01
IC801
R808
C806
R810
R812
D802
IC802
C808
R813
R814
C809
C810
33
1

FL Meter PCB Parts List

Symbol No.	Stock No.	Description
(IC)		
IC801	51T42626F01	HA12019
IC802	51T42626F01	HA12019
(Transistor)		
Q801	48S43525F05	2SC1815-Y, GR
Q802	48S43525F05	2SC1815-Y, GR
Q805	48T40031T03	2SA733(P)
Q806	48T40031T03	2SA733(P)
Q807	48S43525F05	2SC1815-Y, GR
Q808	48S43525F05	2SC1815-Y, GR
Q809	48S43525F05	2SC1815-Y, GR
Q810	48S43525F05	2SC1815-Y, GR
Q811	48S43525F05	2SC1815-Y, GR
(Variable, Resistor)		
VR801	18T52946F17	4.7K
VR802	18T52946F17	4.7K
(FL Meter)		
E801	65T52950F01	Meter FIP 12DW7YS
(Diode)		
D801	48T43982F01	GE OA05
D802	48T43982F01	GE OA95
D805	48T44813F01	MA165TAX
D806	48T44813F01	MA165TAX
D807	48T44813F01	MA165TAX
D808	48T44813F01	MA165TAX
D809	48T44813F01	MA165TAX
D810	48T44813F01	MA165TAX
D811	48T44813F01	MA165TAX
D812	48T44813F01	MA165TAX
(Diode, Zener)		
ZD801	48T40150U32	HZ6B-2
ZD802	48T40150U05	HZ3B2
(Capacitor)		
C801	23S40657F10	16uF 16V E1
C802	23S40546F10	10uF 16V E1
C803	23S40657F17	10uF 25V E1
C804	23S40657F17	10uF 25V E1
C805	23S40657F17	10uF 25V E1
C806	23S40657F17	10uF 25V E1
C807	23T42478F21	0.33uF 50V E1
C808	23T42478F21	0.33uF 50V E1
C809	23S40657F21	100uF 25V E1
C810	23S40546F21	100uF 25V EL
C812	23S40657F29	2.2uF 50V E1
C813	23S40657F16	4.7uF 25V E1
C814	23S40546F16	4.7uF 25V E1

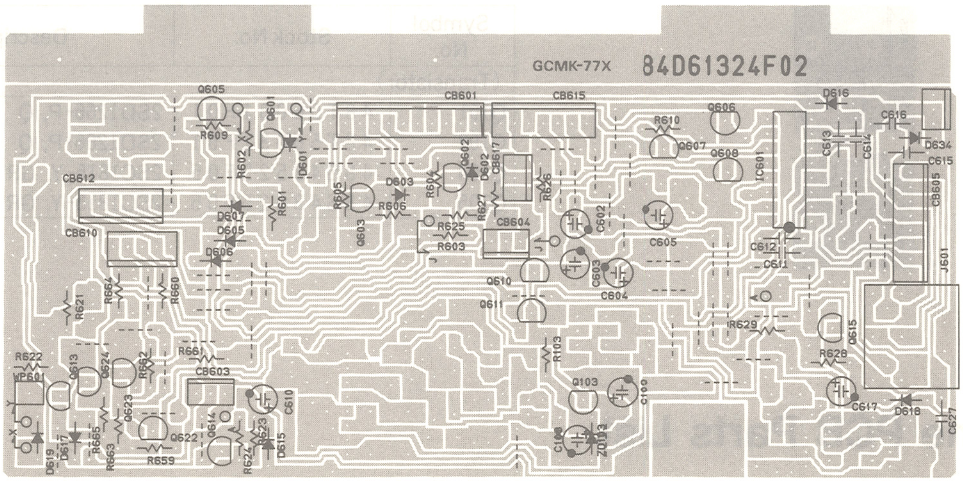
Symbol No.	Stock No.	Description
(Resistor)		
R801	06S55065F89	10K 1/6W Rd
R802	06S55065F89	16K 1/6W Rd
R803	06S55066F29	430K 1/6W Rd
R804	06S55066F29	430K 1/6W Rd
R805	06S55065F71	1.8K 1/6W Rd
R806	06S55065F71	1.8K 1/6W Rd
R807	06S55066F18	150K 1/6W Rd
R808	07S55066F18	150K 1/6W Rd
R809	06S40151T50	3.3M 1/4W Rd
R810	06S40151T50	3.3M 1/4W Rd
R811	06S55065F85	6.8K 1/6W Rd
R812	06S55065F85	6.8K 1/6W Rd
R813	06S55065F49	220 1/6W Rd
R814	06S55065F49	220 1/6W Rd
R815	06T55179F47	18 2W Rm
R816	06S55065F41	100 1/6W Rd
R817	06S55065F41	100 1/6W Rd
R818	06S55065F41	100 1/6W Rd
R819	06T55175F51	27 1/2W Rm
R824	06T55179F51	27 2W Rm
R825	06S55066F14	100K 1/6W Rd
R826	06S44065F89	10K 1/6W Rd
R827	06S55066F07	51K 1/6W Rd
R828	06S55066F07	51K 1/6W Rd
R829	06S55065F89	10K 1/6W Rd
R830	06S55066F14	100K 1/6W Rd
R831	06S55065F89	10K 1/6W Rd
R832	06S55065F97	22K 1/6W Rd
R833	06S55066F14	100K 1/6W Rd
R834	06S55065F89	10K 1/6W Rd
R835	06S55065F89	10K 1/6W Rd
R836	06S55065F89	10K 1/6W Rd
R837	06S55065F97	22K 1/6W Rd
R838	06S55065F97	22K 1/6W Rd
R839	06S55065F41	100 1/6W Rd
R840	06S55066F14	100K 1/6W Rd
R841	06S55065F89	10K 1/6W Rd
R842	06S55065F73	2.2K 1/6W Rd
R843	06S55066F14	100K 1/6W Rd
R844	06S55065F89	10K 1/6W Rd
R846	06S55065F79	3.9K 1/6W Rd
R847	06S55066F02	33K 1/6W Rd
R848	06S55065F59	560 1/6W Rd
R849	06S55065F69	1.5K 1/6W Rd

Indicator PCB Parts List



Symbol No.	Stock No.	Description
(Lamp)		
PL617	65B43447J03	Lamp, Pilot
PL618	65B43447J03	Lamp, Pilot
PL619	65B43447J03	Lamp, Pilot

Control PCB

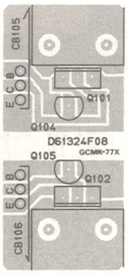

GCMK-77X
84D61324F02
Q605
R609
Q601
R602
D601
CB601
CB615
D616
R610
Q606
Q607
Q608
IC601
C613
C614
C616
D634
C615
CB605
CB612
CB610
D607
D605
D606
R601
R605
Q603
D603
R606
R625
R603
R604
Q602
D602
C617
R627
R626
CB604
C602
C603
C604
C605
C612
C611
Q610
Q611
R103
Q103
C109
C108
ZD103
R629
R628
Q615
C617
D618
C627
J601
R621
R664
R660
R622
VR601
Q613
Q624
R662
R661
CB603
C610
Q623
Q622
Q614
R623
R624
D615
D619
D617
R665
R663
R659

Control PCB Parts List

Symbol No.	Stock No.	Description
(IC)		
IC601	51S47110F01	BA843
(Transistor)		
Q103	48T43015U01	2SC2120-Y
Q601	48T43015U01	2SC2120-Y
Q602	48T43015U01	2SC2120-Y
Q603	48T43015U01	2SC2120-Y
Q605	48S43525F05	2SC1815-Y, GR
Q606	48S43525F05	2SC1815-Y, GR
Q607	48S43525F05	2SC1815-Y, GR
Q608	48S43525F05	2SC1815-Y, GR
Q610	48S43525F05	2SC1815-Y, GR
Q611	48S43525F05	2SC1815-Y, GR
Q613	48S43525F05	2SC1815-Y, GR
Q614	48S43525F05	2SC1815-Y, GR
Q615	48S43525F05	2SC1815-Y, GR
Q622	48S43525F05	2SC1815-Y, GR
Q623	48S43525F05	2SC1815-Y, GR
Q624	48S43525F05	2SC1815-Y, GR
(Diode)		
D601	48T61129F01	GP10-4003-R5
D602	48T61129F01	GP10-4003-R5
D603	48T61129F01	GP10-4003-R5
D605	48T44813F01	MA165TA
D606	48T44813F01	MA165TA
D607	48T44813F01	MA165TA
D615	48T44813F01	MA165TA
D616	48T44813F01	MA165TA
D617	48T43982F01	GE OA95
D618	48T44813F01	MA165A
D619	48T44813F01	MA165A
D634	48T43982F01	GE OA95
(Diode, Zener)		
ZD103	48T40150U32	HZ6B-2
(Jack)		
J601	09T50261F01	Cont
(Capacitor)		
C108	23S40657F10	10uF 16V E1
C109	23S40657F10	10uF 16V E1

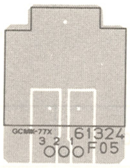
Symbol No.	Stock No.	Description
C602	23S40657F10	10uF 16V E1
C603	23S40657F09	220uF 16V E1
C604	23S40657F09	220uF 16V E1
C605	23S40657F09	220uF 16V E1
C610	23S40657F08	100uF 10V E1
C611	08T55260F61	0.01uF Ce
C612	08T55260F61	0.01uF Ce
C613	08T55260F61	0.01uF Ce
C614	08T55260F61	0.01uF Ce
C615	08T55260F61	0.01uF Ce
C616	08T55260F61	0.01uF Ce
C617	23S40657F07	47uF 10V E1
C627	08T55260F61	0.01uF Ce
(Resistor)		
R103	06S55065F63	820 1/6W Rd
R601	06S55065F73	2.2K 1/6W Rd
R602	06S55065F59	560 1/6W Rd
R603	06S55065F59	560 1/6W Rd
R604	06S55065F53	330 1/6W Rd
R605	06S55065F53	330 1/6W Rd
R606	06S55065F59	560 1/6W Rd
R609	06S55066F06	47K 1/6W Rd
R610	06S55066F06	47K 1/6W Rd
R621	06S55065F89	10K 1/6W Rd
R622	06S55065F89	10K 1/6W Rd
R623	06S55066F04	39K 1/6W Rd
R624	06S55066F02	33K 1/6W Rd
R625	06S55065F41	100 1/6W Rd
R626	06S55065F41	100 1/6W Rd
R627	06S55065F77	3.3K 1/6W Rd
R628	06S55066F06	47K 1/6W Rd
R629	06S55066F02	33K 1/6W Rd
R659	06S55065F93	15K 1/6W Rd
R660	06S55066F06	47K 1/6W Rd
R611	06S55065F97	22K 1/6W Rd
R662	06S55065F89	10K 1/6W Rd
R663	06S55066F14	100K 1/6W Rd
R664	06S55066F06	47K 1/6W Rd
R665	06S55065F93	15K 1/6W Rd

Power Supply PCB Parts List



Symbol No.	Stock No.	Description
(Transistor)		
Q101	48T56031F01	2SD1266-P, Q
Q102	48T56031F01	2SD1266-P, Q
Q104	48S43525F05	2SC1815-Y, GR
Q105	48S43525F05	2SC1815-Y, GR

Head Phone PCB Parts List



Symbol No.	Stock No.	Description
(Jack)		
	09T60076F02	Jack HD Phone

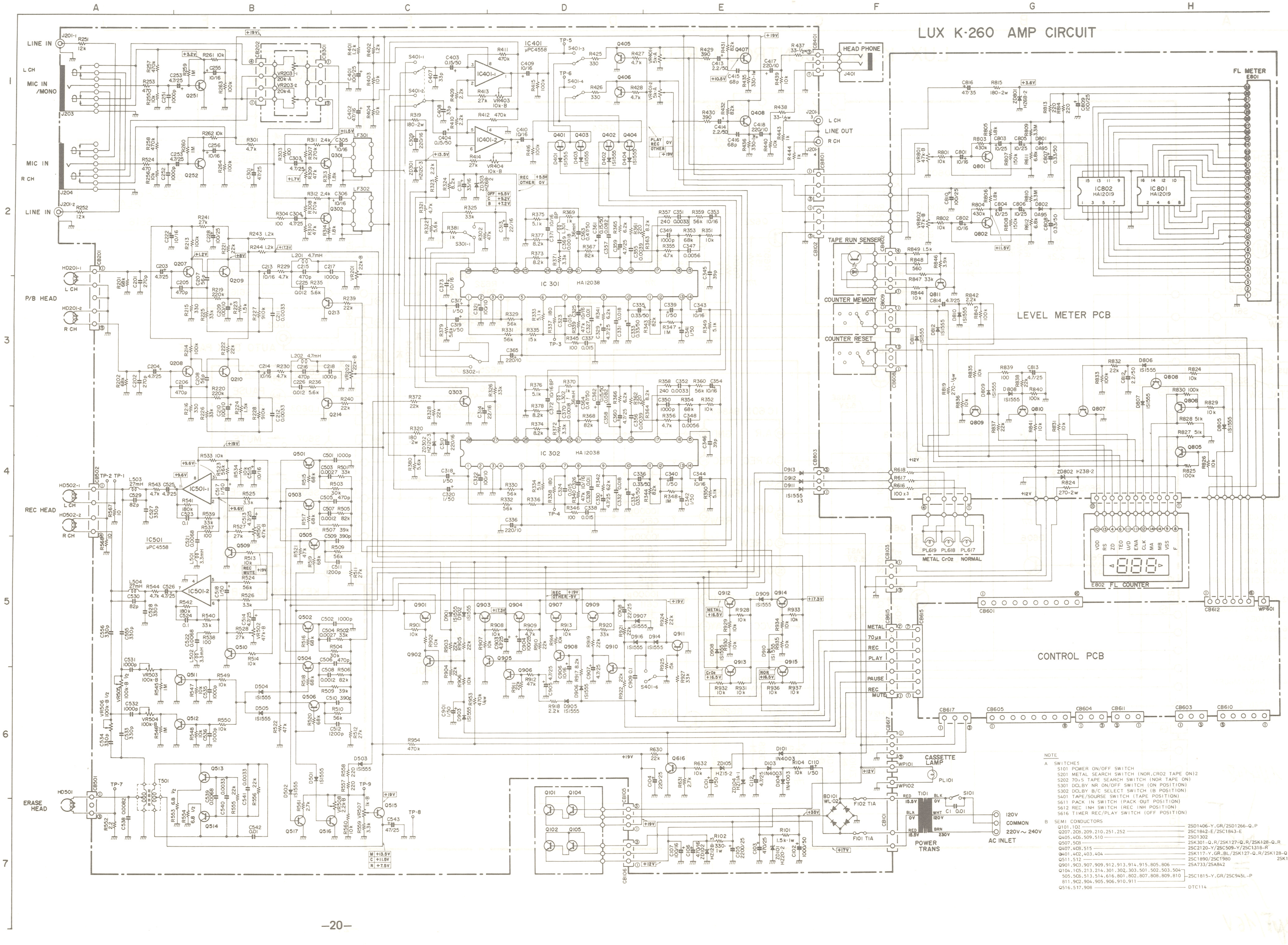
Remarks

Capacitor;	EL	Electrolytic, Capacitor
	Ce	Ceramic, Capacitor
	My	Mylar, Capacitor
	Mi	Mica, Capacitor
	Pe	Polyethelen, Capacitor
	Po	Polystyrene, Capacitor
	Pp	Polyproplene, Capacitor
	LR	Low Leak, Capacitor
	BP	Bi-Polar, Capacitor
Resistor;	Rd	Carbon, Resistor
	Rm	Metal Film, Resistor
	Rc	Cement, Resistor

Destination's Parts List

Symbol No.	Description	Power Source		
		AG (240V) England & Oceania	AK,SK (220V) Europe	UP (120V) Canada
P-5,62	AC Cord,Set Label	30T60973F01 54A51739F01	30T60805F01 54A51740F01	30T60804F01 54A56257F03

Schematic Diagram(A)


A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
LUX K-260 AMP CIRCUIT
LINE IN
L CH
MIC IN /MONO
MIC IN
R CH
LINE IN
J201-1
J203
J204
J201-2
P/B HEAD
HD201-1
HD201-2
REC HEAD
HD502-1
HD502-2
ERASE HEAD
HD501
IC401 μPC4558
IC501 μPC4558
IC 301 HA12038
IC 302 HA12038
HEAD PHONE
J401
LINE OUT
L CH
R CH
J201
FL METER
E801
IC802 HA12019
IC801 HA12019
LEVEL METER PCB
TAPE RUN SENSER
COUNTER MEMORY
COUNTER RESET
E802 FL COUNTER
PL619 PL618 PL617
METAL CrO2 NORMAL
CONTROL PCB
METAL
70μs
REC
PLAY
PAUSE
REC MUTE
CASSETTE LAMP
PL101
POWER TRANS
T101
AC INLET
120V
COMMON
220V ~ 240V
S101
CB601
CB612
WP601
CB617
CB605
CB604
CB611
CB603
CB610
TP-1
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
TP-9
+19V
+13.5V
+11.5V
+17.3V
+12V
+35V
-12V
+17V

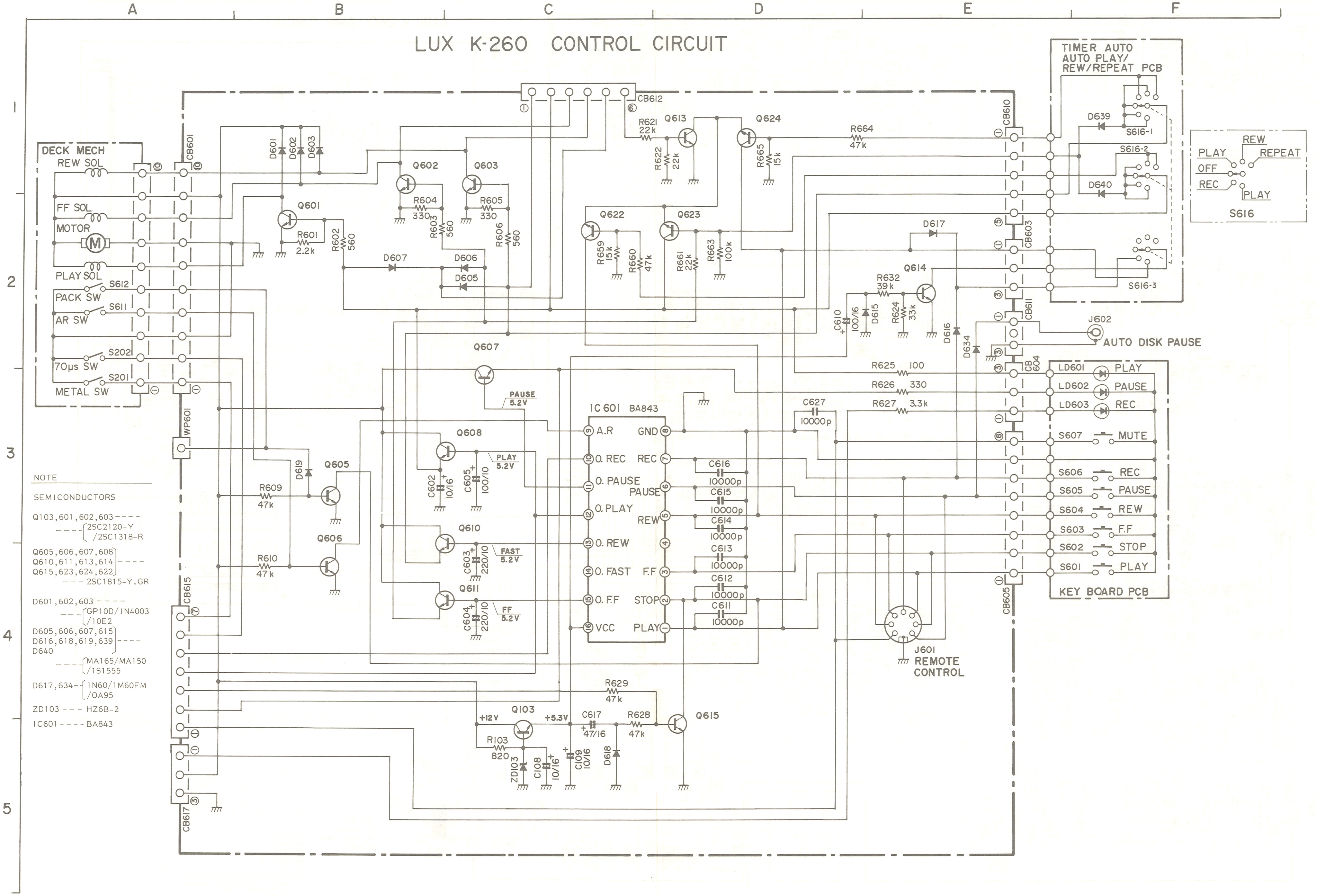
NOTE

A SWITCHES
- S101 POWER ON/OFF SWITCH
- S201 METAL SEARCH SWITCH (NOR.CRO2 TAPE ON)2
- S202 70μS TAPE SEARCH SWITCH (NOR TAPE ON)
- S301 DOLBY NR ON/OFF SWITCH (ON POSITION)
- S302 DOLBY B/C SELECT SWITCH (B POSITION)
- S401 TAPE/SOURSE SWITCH (TAPE POSITION)
- S611 PACK IN SWITCH (PACK OUT POSITION)
- S612 REC INH SWITCH (REC INH POSITION)
- S616 TIMER REC/PLAY SWITCH (OFF POSITION)

B SEMI CONDUCTORS

Q101.102	2SD1406-Y.GR/2SD1266-Q.P
Q207.208.209.210.251.252	2SC1842-E/2SC1843-E
Q405.406.509.510	2SD1302
Q507.508	2SK301-Q.R/2SK127-Q.R/2SK128-Q.R
Q407.408.515	2SC2120-Y/2SC509-Y/2SC1318-R
Q401.402,403.404	2SK117-Y.GR.BL/2SK127-Q.R/2SK128-Q.R/2SK163
Q511.512	2SC1890/2SC1980
Q901.903.907.909.912.913.914.915.805.806	2SA733/2SA842
Q104.105.213.214.301.302.303.501.502.503.504 505.506.513.514.616.801.802.807.808.809.810 811.902.904.905.906.910.911	2SC1815-Y.GR/2SC945L-P
Q516.517.908	DTC114

Schematic Diagram(B)



LUX K-260 CONTROL CIRCUIT

A
B
C
D
E
F
1
2
3
4
5
DECK MECH
REW SOL
FF SOL
MOTOR
M
PLAY SOL
S612
PACK SW
S611
AR SW
S202
70μs SW
S201
METAL SW
CB601
WP601
CB615
CB617
CB612
D601
D602
D603
Q601
R601 2.2k
R602 560
Q602
Q603
R604 330
R603 560
R605 330
R606 560
D607
D606
D605
R621 22k
R622 22k
Q613
Q624
R665 15k
R664 47k
Q622
Q623
R659 15k
R660 47k
R661 22k
R663 100k
Q607
PAUSE 5.2V
IC601 BA843
A.R
GND
O. REC
REC
O. PAUSE
PAUSE
O. PLAY
REW
O. REW
O. FAST
F.F
O. F.F
STOP
VCC
PLAY
Q608
PLAY 5.2V
C602 10/16
C605 100/10
Q610
C603 220/10
FAST 5.2V
Q611
C604 220/10
FF 5.2V
C616 10000p
C615 10000p
C614 10000p
C613 10000p
C612 10000p
C611 10000p
D619
Q605
R609 47k
Q606
R610 47k
Q103
+12V
+5.3V
R103 820
ZD103
C108
C109 10/16
C617 47/16
D618
R628 47k
R629 47k
Q615
D617
Q614
R632 39k
C610 100/16
D615
R624 33k
D616
D634
R625 100
R626 330
R627 3.3k
C627 10000p
J601 REMOTE CONTROL
J602
AUTO DISK PAUSE
CB610
CB603
CB611
CB604
CB605
TIMER AUTO AUTO PLAY/ REW/REPEAT PCB
D639
S616-1
S616-2
D640
S616-3
PLAY
OFF
REC
REW
REPEAT
PLAY
S616
LD601 PLAY
LD602 PAUSE
LD603 REC
S607 MUTE
S606 REC
S605 PAUSE
S604 REW
S603 F.F
S602 STOP
S601 PLAY
KEY BOARD PCB

NOTE

SEMICONDUCTORS

Q103,601,602,603 ---- ---- 2SC2120-Y /2SC1318-R

Q605,606,607,608 Q610,611,613,614 Q615,623,624,622 ---- --- 2SC1815-Y.GR

D601,602,603 ---- --- GP10D/IN4003 /10E2

D605,606,607,615 D616,618,619,639 D640 ---- ---- MA165/MA150 /1S1555

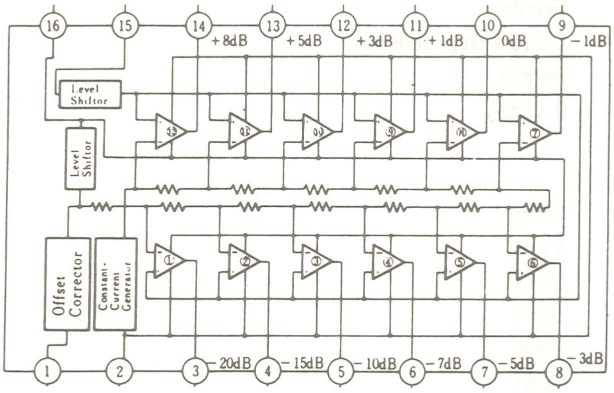
D617,634 -- 1N60/1M60FM /OA95

ZD103 --- HZ6B-2

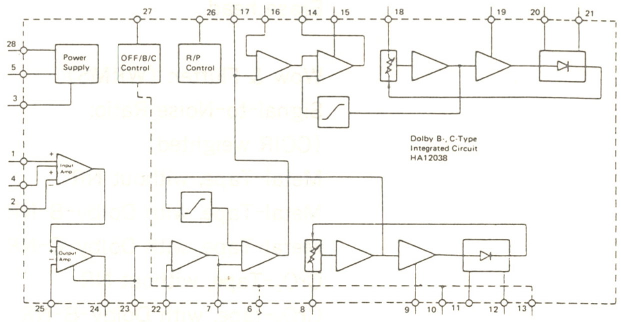
IC601 ---- BA843

IC Handling Guide

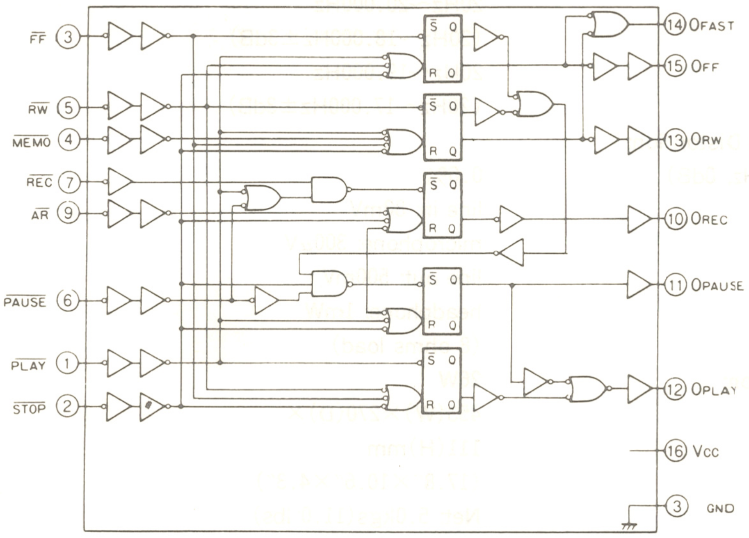
HA12019. (IC801, IC802 Stock No. 51T42626F01)
Fluorescent Tube Driver for Bar Graph Display

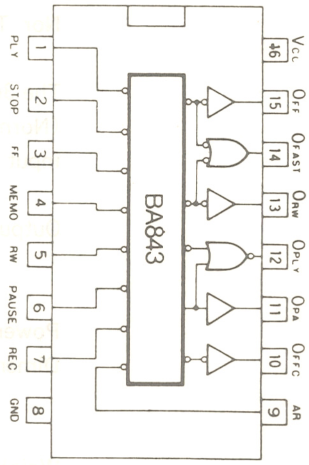

Level Shiftor
Level Shiftor
Offset Corrector
Constant-Current Generator
+8dB
+5dB
+3dB
+1dB
0dB
−1dB
−20dB
−15dB
−10dB
−7dB
−5dB
−3dB

HA12038. (IC301, 302 Stock No. 51T52160F01)
Dolby-Band-C Type Noise Reduction System


Power Supply
OFF/B/C Control
R/P Control
Input Amp
Output Amp
Dolby B-, C-Type Integrated Circuit HA12038

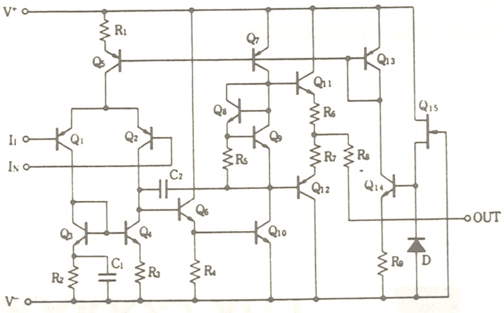
BA843 (IC601 Stock No. 51S47110F01)
Key Control


FF ③
RW ⑤
MEMO ④
REC ⑦
AR ⑨
PAUSE ⑥
PLAY ①
STOP ②
⑭ OFAST
⑮ OFF
⑬ ORW
⑩ OREC
⑪ OPAUSE
⑫ OPLAY
⑯ Vcc
③ GND

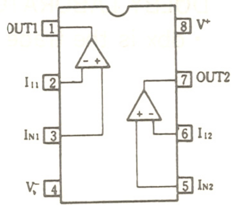

BA843
PLY
STOP
FF
MEMO
RW
PAUSE
REC
GND
Vcc
OFF
OFAST
ORW
OPLY
OPA
OFFC
AR

µPC4558C (IC401, 501 Stock No. 51S43471U02)

Equivalent Circuit


V+
V−
I1
IN
OUT
R1
R2
R3
R4
R5
R6
R7
R8
R9
C1
C2
D
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15

Connection Diagram (Top View)


OUT1
I11
IN1
V−
V+
OUT2
I12
IN2

Specifications

Heads:	3
Record head	Hexalam
Playback head	Ferrite
Erase head	Double Gap Sendust Ferrite
Wow & Flutter: (WRMS)	0.035%
Signal-to-Noise Ratio:	
(CCIR weighted)	
Metal-Tape, without NR	59dB
Metal-Tape, with Dolby-B-NR	68dB
Metal-Tape, with Dolby-C-NR	72dB
CrO_2-Tape, without NR	59dB
CrO_2-tape, with Dolby-B-NR	68dB
CrO_2-Tape, with Dolby-C-NR	72dB
Nor-Tape, without NR	57dB
Nor-Tape, with Dolby-B-NR	67dB
Nor-Tape, with Dolby-C-NR	71dB
Frequency Response:	
Metal Tape:	20Hz~21.000Hz (20Hz~19.000HZ±3dB)
CrO_2 Tape:	20Hz~20.000Hz (20Hz~18.000Hz±3dB)
Nor. Tape:	20Hz~19.000Hz (20Hz~17.000Hz±3dB)
The 3rd Harmonic Distortion:	
(Normal tape, 1kHz, 0dB)	0.6%
Input Sensitivity:	line in: 80mV microphone: 300μV
Output Level:	line out: 500mV headphone: 1mW (8 ohms load)
Power Consumption:	26W
Dimensions:	453(W)×270(D)× 111(H)mm (17.8″×10.6″×4.3″)
Weight:	Net: 5.0kgs(11.0 lbs) Gross: 6.0kgs(13.2 lbs)

Specifications and appearance design subject to change without notice.

・NOISE REDUCTION CIRCUIT MADE UNDER LICENCE FROM DOLBY LABORATORIES. THE WORD "DOLBY" AND THE DOUBLE-D SYMBOL ARE THE TRADE MARKS OF DOLBY LABORATORIES.

・dbx is the trade marks of dbx Incorporated.

LUX CORPORATION, JAPAN
1-1, 1-CHOME, SHINSENRI-NISHIMACHI, TOYONAKA-SHI, OSAKA 565
PHONE 06-834-0004 CABLE LUXMAN TOYONAKA TELEX: 5287106 LUXELE J

K-NK. 8312. 010A Printed in Japan